55-1520-248-23-8

TM 55-1520-248-23-8

GLOSSARY

ALPHABETICAL INDEX

FOLDOUTS

TECHNICAL MANUAL

AVIATION UNIT AND
INTERMEDIATE
MAINTENANCE MANUAL

ARMY MODEL
OH-58D
HELICOPTER

This manual together with TM 55-1520-248-23-1, 12 January 1988, TM 55-1520-248-23-2, 12 January 1988, TM 55-1520-248-23-3, 12 January 1988, TM 55-1520-248-23-4, 12 January 1988, TM 55-1520-248-23-5, 12 January 1988, TM 55-1520-248-23-6, 12 January 1988, TM 55-1520-248-23-7, 12 January 1988, supersedes, TM 55-1520-248-23-1, 3 November 1986, TM 55-1520-248-23-2, 3 November 1986, TM 55-1520-248-23-3, 3 November 1986, TM 55-1520-248-23-4, 3 November 1986, TM 55-1520-248-23-5, 3 November 1986.

This copy is a reprint which includes current pages from Changes 1 and 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY
12 JANUARY 1988

READEX FICHE best copy available

Reproduced from poor document.

D 101.11:

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*
inches	centimeters	2.540
feet	meters	.305
yards	meters	.914
miles	kilometers	1.609
square inches	square centimeters	6.451
square feet	square meters	.093
square yards	square meters	.836
square miles	square kilometers	2.590
acres	square hectometers	.405
cubic feet	cubic meters	.028
cubic yards	cubic meters	.765
fluid ounces	milliliters	29,573
pints	liters	.473
quarts	liters	.946
gallons	liters	3.785
ounces	grams	28.349
pounds	kilograms	.454
short tons	metric tons	.907
pound-feet	newton-meters	1.356
pound-inches	newton-meters	.11296

To change	*To*	*Multiply by*
ounce-inches	newton-meters	.007062
centimeters	inches	.394
meters	feet	3.280
meters	yards	1.094
kilometers	miles	.621
square centimeters	square inches	.155
square meters	square feet	10.764
square meters	square yards	1.196
square kilometers	square miles	.386
square hectometers	acres	2.471
cubic meters	cubic feet	35.315
cubic meters	cubic yards	1.308
milliliters	fluid ounces	.034
liters	pints	2.113
liters	quarts	1.057
liters	gallons	.264
grams	ounces	.035
kilograms	pounds	2.205
metric tons	short tons	1.102

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after suotracting 32)	Celsius temperature	°C

TM 55-1520-248-23-8
C 2

CHANGE
NO. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 20 June 1989

Aviation Unit and Intermediate
Maintenance Manual
ARMY MODEL OH-58D HELICOPTER

TM 55-1520-248-23-8, 12 January 1988, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
----	A/B
i through vi	i through vi
Index 1 through Index 18	Index 1 through Index 18
Index 18.1/Index 18.2	----
Index 19 through Index 65/ Index 66	Index 19 through Index 65/ Index 66
FP-1/FP-2 and FP-3/FP-4	FP-1/FP-2 and FP-3/FP-4
FP-7/FP-8 through FP-83/FP-84	FP-7/FP-8 through FP-83/FP-84

2. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

WILLIAM J. MEEHAN II
Brigadier General, United States Army
The Adjutant General

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This copy is a reprint of change 1.

TM 55-1520-248-23-8
C 1

CHANGE NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 17 November 1988

Aviation Unit and Intermediate
Maintenance Manual
ARMY MODEL OH-58D HELICOPTER

TM 55-1520-248-23-8, 12 January 1988, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Remove pages
i and ii	i and ii
Index-17 and Index-18	Index-17 and Index-18
- - -	Index-18.1/Index-18.2
Index-23 and Index-24	Index-23 and Index-24
Index-39 and Index-40	Index-39 and Index-40
Index-49 and Index-50	Index-49 and Index-50

2. Retain this sheet in front of manual for reference purposes.

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The Adjutant General

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LIST OF EFFECTIVE PAGES

INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

NOTE: The portion of the text affected by the changes is indicated by a vertical bar in the outer margins of the page. Changes to illustrations are indicated by a vertical bar in the outer margins of the page, adjacent to changed area.

Dates of issue for original and changed pages are:

Original .....0 ..... 12 Jan 1988
Change .....1 ..... 17 Nov 1988
Change .....2 ..... 20 Jun 1989

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 4,972, WITH 166 PAGES IN VOLUME 8.

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*Zero in this column indicates an original page.

WARNINGS, CAUTIONS, AND NOTES

Personnel performing troubleshooting procedures and practices which are included or implied in this technical manual shall observe the following warnings.

WARNING

An operating procedure, practice, etc., which if not correctly followed, could result in personal injury or loss of life.

CAUTION

An operating procedure, practice, etc., which if not strictly observed, could result in damage to or destruction of equipment.

NOTE

An operating procedure, condition, etc. which it is essential to highlight.

SAFETY STEPS
ELECTRICAL SHOCK

Refer to FM 21-11 for electrical shock safety steps and procedures.

WARNING

HIGH VOLTAGE

The helicopter contains high voltage and shall be electrically grounded when parked. Serious burns and electrical shock can result from contact with exposed electrical wires or connectors.

WARNING

HIGH VOLTAGE

High voltage may be stored in the ignition system after operation of the APU. This high voltage can cause injury or death.

- Do not make contact with exposed wires or connectors.
- Allow at least five minutes after operation of the ignition system before disconnecting or removing ignition system components.
- Turn all power switches off before making any connections or disconnections.
- Observe instructions for grounding the power cable to discharge high voltage.
- For artificial respiration, refer to FM 21-11.

WARNING

PITOT HEAT

The pitot tube assembly is very hot during and immediately after operation requiring pitot heat. Severe burns will result if contacted by hands or other parts of the body.

WARNING

LUBRICATING OILS HAZARDOUS

Lubricating oils MIL-L-7808 and MIL-L-23699 contain materials hazardous to health. They can cause paralysis if swallowed. Prolonged contact with skin can cause irritation. Fire can result if exposed to heat or flames.

- Use only in areas with adequate ventilation.
- Wash hands thoroughly after handling.

WARNING

BATTERY ELECTROLYTE

Corrosive battery electrolyte (potassium hydroxide) requires rubber gloves, apron, and face shield when handling leaking batteries. Potassium hydroxide spilled on clothing or other material shall be washed immediately with clean water. If spilled on personnel, severe skin burns will result. Immediately start flushing the affected area with clean water and continue flushing until medical assistance arrives.

WARNING

RADIATION HAZARD

SELF-LUMINOUS DIALS

Self-luminous instrument dials contain radioactive materials.

- If glass is broken or case becomes unsealed, avoid personal contact. Injury to personnel could result.
- Forceps or gloves made of rubber or polyethylene shall be used to pick up contaminated material.

SELF-LUMINOUS DIALS (CONT)

- Place material and gloves in a plastic bag. Seal bag and dispose of it as radioactive waste in accordance with AR 755-15 and TM 3-261.
- Repair procedure shall conform to requirements in AR 700-52.

WARNING

POISONOUS LEAD OXIDE

Poisonous lead oxide is a byproduct of fuels containing tetraethyl lead. Death or injury can result if this lead oxide is taken into the body through cuts or other external openings, or if inhaled.

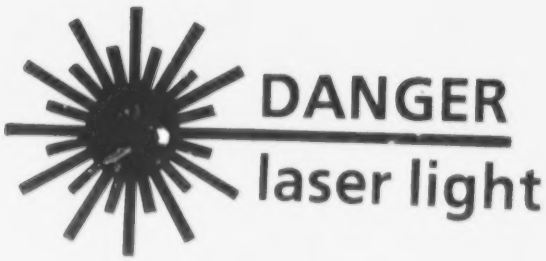
- Wear rubber gloves and goggles when handling contaminated parts.
- If accidental exposure occurs, drench affected areas with large amounts of clear water.
- Obtain immediate medical attention.

WARNING

TOXIC AND FLAMMABLE SOLVENTS

Solvents used for cleaning are toxic and flammable. They irritate skin and cause burns. Fire can result from use near heat or open flame.

- Use only in a well-ventilated area.
- Wear rubber gloves.
- In case of contact, immediately flush skin or eyes with water for at least 15 minutes.
- Get immediate medical attention for eyes.



To look along the axis of a laser beam without protective glasses is extremely dangerous. Serious eye injury will result. Align the laser so that personnel are unlikely to inadvertently look along the axis of its beam.

Laser firing systems may store a charge. Take care to prevent accidental pulsing of the laser and to avoid electric shock. Personal injury may result.

Reflections from the laser beam are extremely dangerous. Serious eye injury will result. It is essential that all reflective material be removed from its path.

WARNING

SOLVENT

Drycleaning solvent is flammable and toxic. It can irritate skin and cause burns.

- Use only in well-ventilated area away from heat and open flame.
- Wear rubber gloves and goggles.
- In case of contact, immediately flush skin or eyes with water for at least 15 minutes.
- Get medical attention for eyes.

WARNING

SOUND LEVEL

Sound pressure levels in this helicopter during operating conditions exceed the Surgeon General hearing conservation criteria. Hearing protection devices, such as aviator helmet or ear plugs or ear sound suppressors are required to be worn by all personnel in and around the helicopter during its operation.

WARNING
COMPRESSED AIR

Compressed air is dangerous when directed toward yourself or another person. The airstream or material blown by the airstream can cause injury, particularly to the eyes or face.

- Use goggles to protect eyes and face.
- Do not exceed 30 psig.
- Do not direct airstream toward yourself or another person.

WARNING
TOXIC AND FLAMMABLE FUELS

Turbine fuels and fuel fumes are flammable. They cause drying and irritation of skin or eyes.

- Handle only in well – ventilated areas away from heat and open flame.
- Store in approved metal safety containers.
- Avoid prolonged or repeated contact with skin.
- Do not take internally.
- Wash contacted areas of skin after handling.
- Get immediate medical attention for eyes and irritated skin.

WARNING
METHYL – ETHYL – KETONE (MEK)

MEK is flammable and toxic.

- It can irritate and cause burns.
- Use only in well – ventilated areas, away from heat or open flame.
- Wear rubber gloves and goggles.
- In case of contact, immediately flush skin or eyes with water for at least 15 minutes.
- Get medical attention for eyes.

WARNING

STRAY VOLTAGE

Stray voltages may exist in electronic equipment installed in the helicopter. These voltages present an explosive hazard to fuel and fuel fumes. Severe injury or death could result.

WARNING

MAIN AND TAIL ROTOR BLADES

Stay clear of turning main and tail rotor blades. Wind gusts, coast down or cyclic movement may cause the main rotor blade to flap down below the height of a person. Dangerous winds are created by the main rotor blades when blades are operated at or near top rpm. Adequate distance must be maintained from main and tail rotor blades during operation. Severe injury or death may result.

WARNING

ARMAMENT

Loaded weapons, or weapons being loaded or unloaded, shall be pointed in a direction which offers the least exposure to personnel or property in the event of accidental firing. Personnel should remain clear of hazardous area of all loaded weapons.
Death or severe injury may result.

WARNING

HF ANTENNA

Ensure that HF antenna is not operating while performing maintenance. When operating, HF antenna emits infrared radiation that can cause radiation burns. If exposed to infrared radiation, seek medical aid immediately.

WARNING

ASBESTOS DUST

Avoid creating dust. Breathing asbestos dust may cause serious bodily harm.

AVIATION UNIT AND INTERMEDIATE
MAINTENANCE MANUAL

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, or the DA Form 2028-2 located in the back of this manual, directly to: Commander, US Aviation System Command, ATTN: AMSAV-MMD, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

1. GENERAL.

In order to do the job right, you must be able to find the information you need. Knowing how to use this manual is very important. You should know what the manual consists of, how it is put together, and how to use it.

2. ORGANIZATION.

a. The entire manual is made up of a set of CHAPTERS. They are numbered in Arabic numerals (1, 2, 3, 4, etc.).

b. Each chapter contains information on major helicopter systems.

c. Chapters are divided into SECTIONS. Sections are numbered in Roman numerals (I, II, III, IV, etc.).

d. Each section has information you need for doing any job.

3. PARAGRAPHS.

a. Paragraphs are individually numbered by chapter and sequence. Illustrations are provided to make things clearer. Illustrations and index callouts apply to the text located on the same page as the illustration.

b. Paragraph numbers are assigned to each major information subject.

c. The task title (task name) is also at the top of the page.

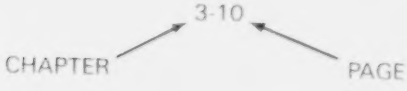
4. NUMBERING.

a. Paragraphs are numbered in two parts. The first number is the CHAPTER. The second number is the PARAGRAPH number in that chapter. Each number is separated by a dash.

b. Tasks are numbered in three parts. The first number is the CHAPTER. The second number is the SECTION, and the third is the TASK number in that section. Each number is separated by a dash as shown in the example.

5. PAGE NUMBERING.

All page numbering is by chapters. Section numerals are not included in page numbers. The first number is the number of the chapter; the second number is the number of the page in that chapter. The numbers are separated by a dash as shown in the example.



6. ALPHABETICAL INDEX.

a. The Alphabetical Index lists all the subjects of the manual in alphabetical order. If you know what you are looking for, it will be listed under the first letter of the first word in the title. For example: If you need information on the Tail Rotor Gearbox, look under "T", "R", or "G" in the Index.

b. The Alphabetical Index gives you the page number that has the information you need.

7. APPENDIXES.

a. Appendixes A through J are included in this manual to provide supplementary information required for maintenance. Each appendix contains specific instructions for its use.

b. Section III of Appendix B – Maintenance Allocation Chart – contains a list of the special tools and ground support equipment required for the OH-58D helicopter. The TOOL OR TEST EQUIPMENT REFERENCE CODE COLUMN has a number for each item on the list. This number appears as (B124) for example in identifying the particular tool or GSE in the setup table of the applicable task. Also, this number appears where applicable in Section II of Appendix B.

c. Appendix D — Expendable Supplies and Materials — contains a list of the adhesives, chemicals, etc., required to maintain the helicopter. The ITEM NUMBER column has a number for each item on the list. This number appears as (D4), for example, in identifying lockwire in the setup table of the applicable task. Also, this number appears as (D4) within the steps of the task.

8. GLOSSARY.

a. Many words have more than one meaning. A word that has a certain meaning in every day language may have a different meaning when used for the helicopter. This is the reason for the Glossary. If you see a word in the manual and you are not sure of the meaning, check the Glossary.

b. The Glossary also has a List of Abbreviations as they are used in this manual. It is always good practice to look over the list. Make sure you know what each abbreviation stands for.

9. INITIAL SETUP (EXAMPLE NEXT PAGE).

The first page of each maintenance procedure in the manual is the Initial Setup. Always check the Initial Setup before starting a task on the helicopter. The Initial Setup contains information you must know. DON'T START A TASK UNTIL:

a. You understand the task.

b. You understand what you are to do.

c. You know what is needed to do the work.

NOTE

A task requiring a pilot/maintenance test pilot to perform a MOC/MTF may not necessarily list either in the Initial Setup or Follow-on Maintenance. These requirements may be covered in other referenced tasks under Follow-on Maintenance.

d. You have the things you need.

11-X-X. RIG CYCLIC CONTROLS

This task covers: Rigging (On Helicopter)

INITIAL SETUP

Applicable Configurations:

All

Tools:

Aircraft Mechanic Tool Kit
Rigging Bolt (B66)
Torque Wrench, 30-150 Inch-Pounds
Spring Scales 0-10 pounds

Parts:

Cotter Pin (8)
Nut

Personnel Required:

66S Scout Helicopter Technical Inspector
67S Scout Helicopter Repairer
Maintenance Test Pilot

References:

TM 55-1520-248-MTF

Equipment Condition:

Forward Fairing Removed (Task 2-1-21)
Collective Controls Rigged (Task 11-2-1)
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General Safety Instructions:

WARNING

Ensure that no one operates control from inside of helicopter during rigging of cyclic control system. Physical injury can occur. If injury occurs, seek medical aid.

Do not drop tools in center post (vertical tunnel). Tools can jam or damage controls. Loss of controls can result in helicopter crash and loss of lives.

GLOSSARY

ABBREVIATIONS

AC	Alternating Current
ACK	Acknowledge
ADF	Automatic Direction Finder
ADS	Air Data System
ADU	Audio Distribution Unit
AHRS (AHARS)	Attitude Heading Reference System
ALT	Altitude
AMP	Ampere/Amplifier
APU	Auxiliary Power Unit
ATHS	Airborne Target Handover System
ATT	Attitude
AUTO	Automatic
BATT	Battery
BIT	Built-In Test
BITE	Built-In Test Equipment
BKUP	Backup
BLWR	Blower
BRSIT	Boresight
BRT	Bright
°C	Degrees Centigrade
CARC	Chemical Agent Chemical Coating
CDS	Control Display System
CDSS	Control Display Sub-System
CIPH	Cipher
CKPT	Cockpit
CKPT LT	Cockpit Light
CLR	Clear
COMSEC	Communication Security
CON	Contrast
CPO	Copilot/Observer
DC	Direct Current
DEFOG	Windshield Defogger System
DES	Designation
DGT	Digital
DISENG	Disengage
DN	Down
DPLR	Doppler
DSC	Digital Scan Convertor
EEC	Electronic Engine Control
ELEV	Elevation
ENGA	Engage
ENG	Engine
ESC	Electronic Supervisory Control
ESNTL BUS	Essential Bus
EXT	External
FCU	Fuel Control Unit
FDL	Fault Detection and Location

ABBREVIATIONS (CONT)

FM	Frequency Modulation
FOV	Field-of-View
FREQ	Frequency
FWD	Forward
GEN	Generator
GRBX	Gearbox
HDG	Heading
HHM	Heading Hold Mode
HOM	Homing (FM)
HSD	Horizontal Situation Display
HSF	Hot Section Factor
HTR	Heater
HYD	Hydraulic
ICS	Inter Communication System
IFF	Identification Friend or Foe
IFM	Improved Frequency Modulation
IGN	Ignition
INIT	Initiate
INST LT	Instrument Light
INTCOM	Intercommunication
INV	Inverter
KM	Kilometer
KPH	Kilometer Per Hour
KTS	Knots
KYBD	Keyboard
LAT	Latitude
LCF	Low Cycle Fatigue
LRF/D	Laser Rangefinder/Designator
LSR	Laser
LVDT	Linear Variable Differential Transformer
MAINT	Maintenance
MAPS	Maintenance Action Precise Symptoms
MCPS	Mast Mounted Central Power Supply
MCPU	Mast Controller Processor Unit
MEK	Methyl-Ethyl-Ketone
MFD	Multifunction Display
MMS	Mast Mounted Sight
MMSS	Mast Mounted Sight Subsystem
MOC	Maintenance Operational Check
MPD	Multiparameter Display
MSP	MMS Signal Processor
MTF	Maintenance Test Flight
NVG	Night Vision Goggles
NAV	Navigation
NG	Engine Gas Producer Turbine RPM
NOE	Nap-of-the-Earth
NP	Engine Power Turbine RPM
NR	Main Rotor RPM
OSET	Offset
PART SP	Particle Separator

ABBREVIATIONS (CONT)

PLT	Pilot
POS	Position
POS LT	Position Light
PSI	Pounds Per Square Inch
PWR	Power
QAD	Quick Attack-Detach
RALT	Radar Altimeter
RAST	Raster
RCPT	Receptacle
REC	Receive
RECT	Rectifier
RET	Retract
RFD	Remote Frequency Display
RPM	Revolutions Per Minute
RST	Reset
SCAS	Stability Control Augmentation System
SEL	Select
SPRL	Spiral
STBY	Standby
TAMS	Transmission Attitude Measuring System
TCU	Thermal Control Unit
TEMP	Temperature
TGT	Turbine Gas Temperature/Target
TGT/TRQ	Turbine Gas Temperature/Torque
TIS	Thermal Indicating Sensor
T/R	Tail Rotor
TRK	Track
TVS	Television System
VAC	Volts Alternating Current
VDC	Volts Direct Current
VSD	Vertical Situation Display
VSI	Vertical Scale Instrument
VTVM	Vacuum Tube Voltmeter
WRN	Warning
WSPS	Wire Strike Protection System
XDCR	Transducer (Sensor)
XMSN	Transmission

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By Order of the Secretary of the Army:

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COA, 3d ENGINEER BN
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DATE SENT

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TM 55-1520-248-23	12 Jan 1988	AVIM/AVUM Maint Manual OH-58D

BE EXACT PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	
6	2-1 a			In line 6 of paragraph 2-1a the manual states the engine has 6 Cylenders. The engine on my set only has 4 Cylenders. Change the manual to show 4 Cylenders.
B1		4-3		Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.
125	line 20			I ordered a gasket, item 19 on figure 8-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE
JOHN DOE, PFC (268) 317-7111	JOHN DOE JOHN DOE

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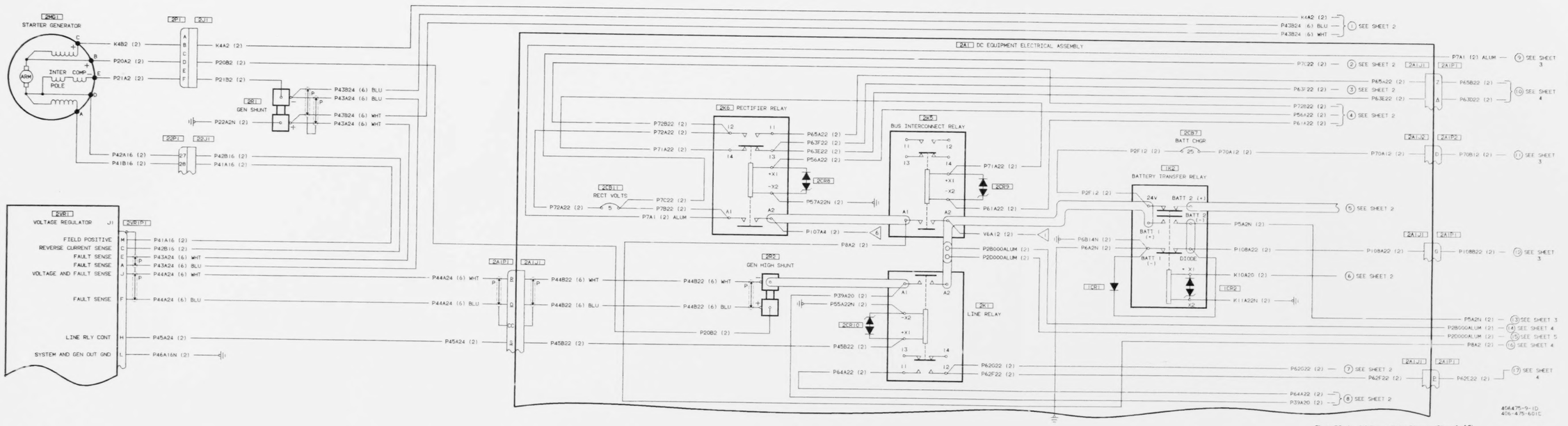

Figure FO-1. DC Power Wiring Diagram (Sheet 1 of 6)

best copy available

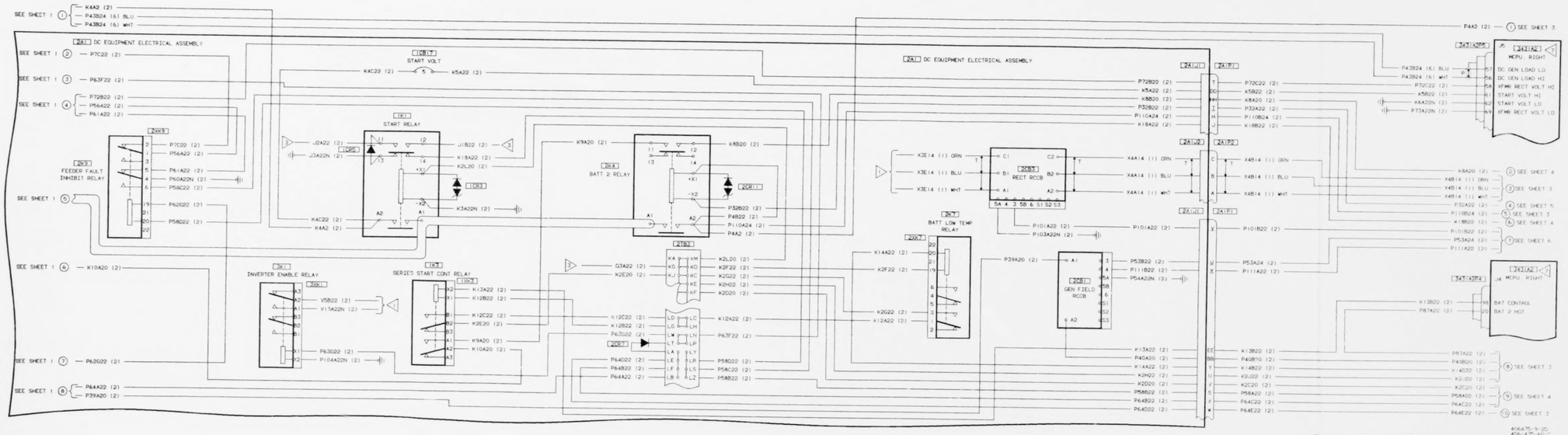

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Figure FO-1. DC Power Wiring Diagram (Sheet 2 of 6)

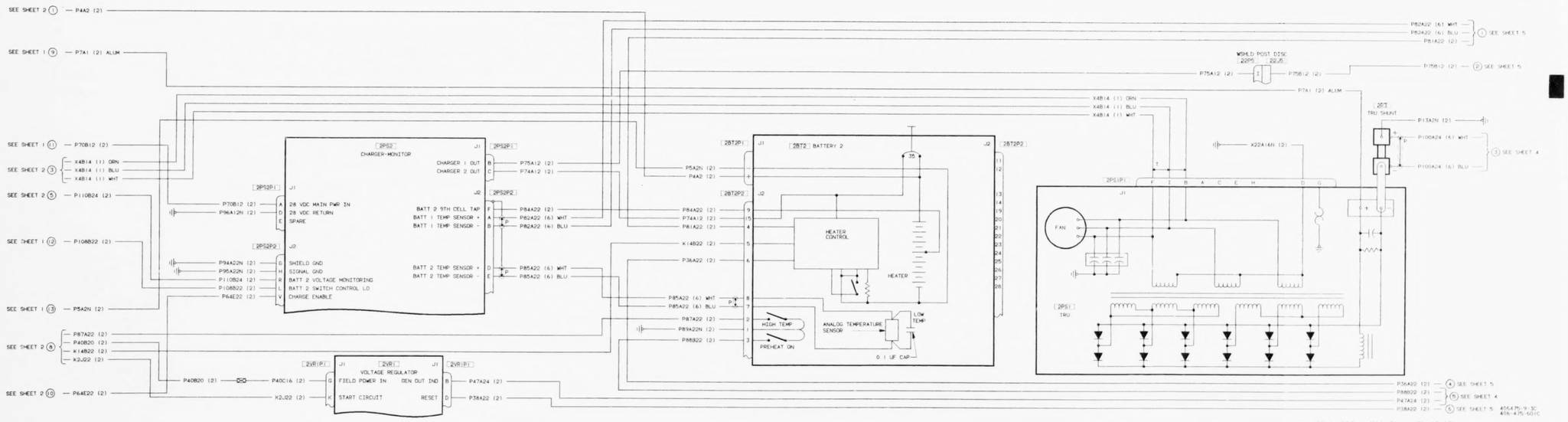

Figure FO-1. DC Power Wiring Diagram (Sheet 3 of 6)

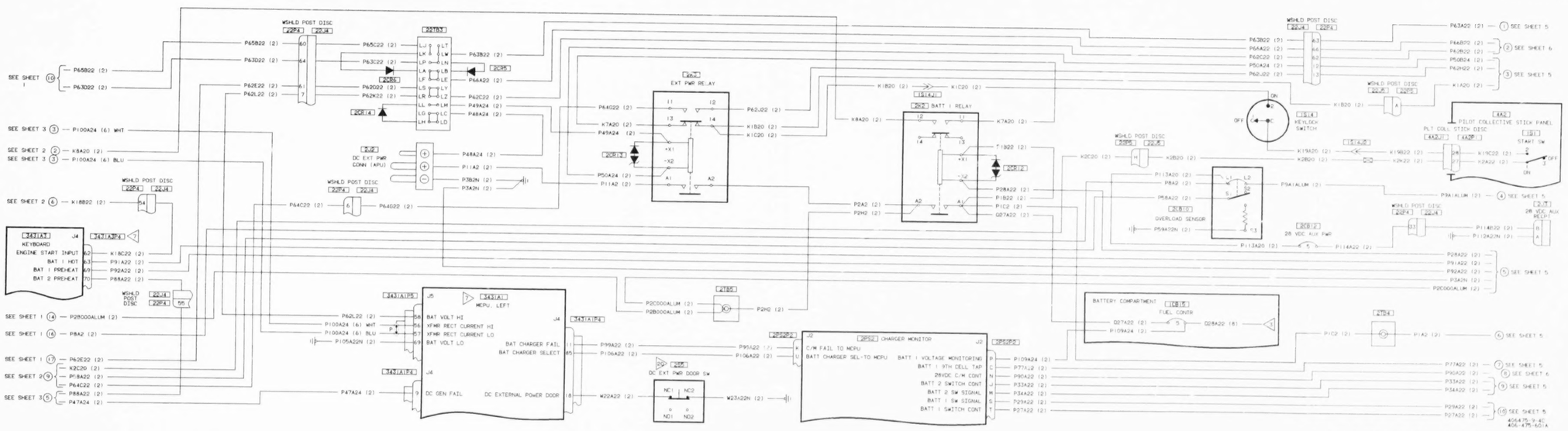

Figure FO-1. DC Power Wiring Diagram (Sheet 4 of 6)

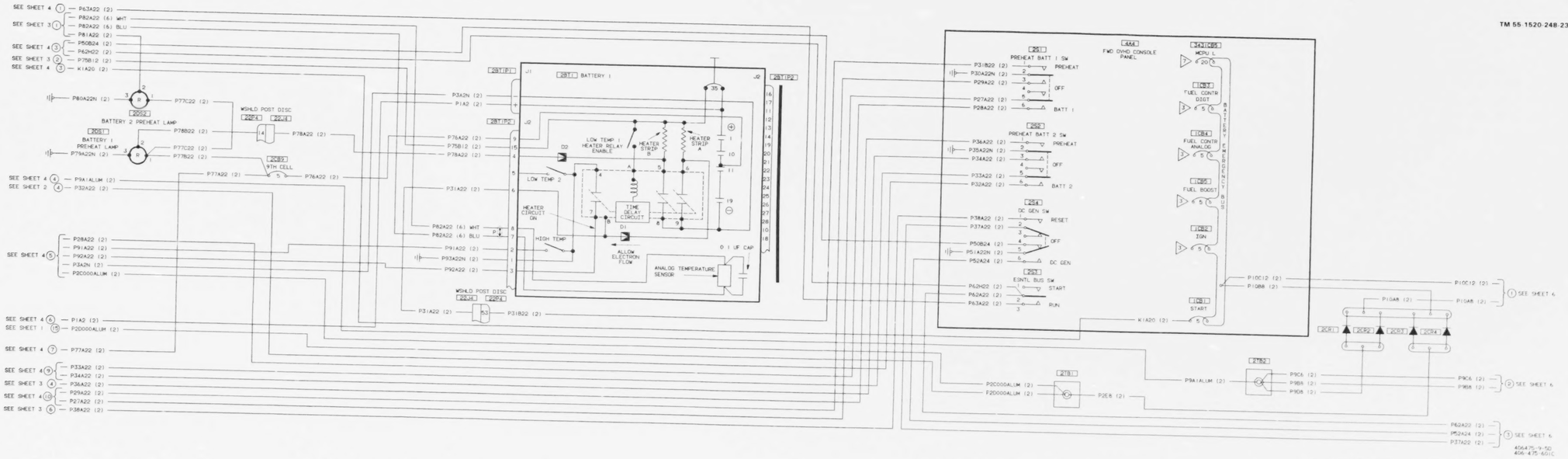

Figure FO-1. DC Power Wiring Diagram (Sheet 5 of 6)

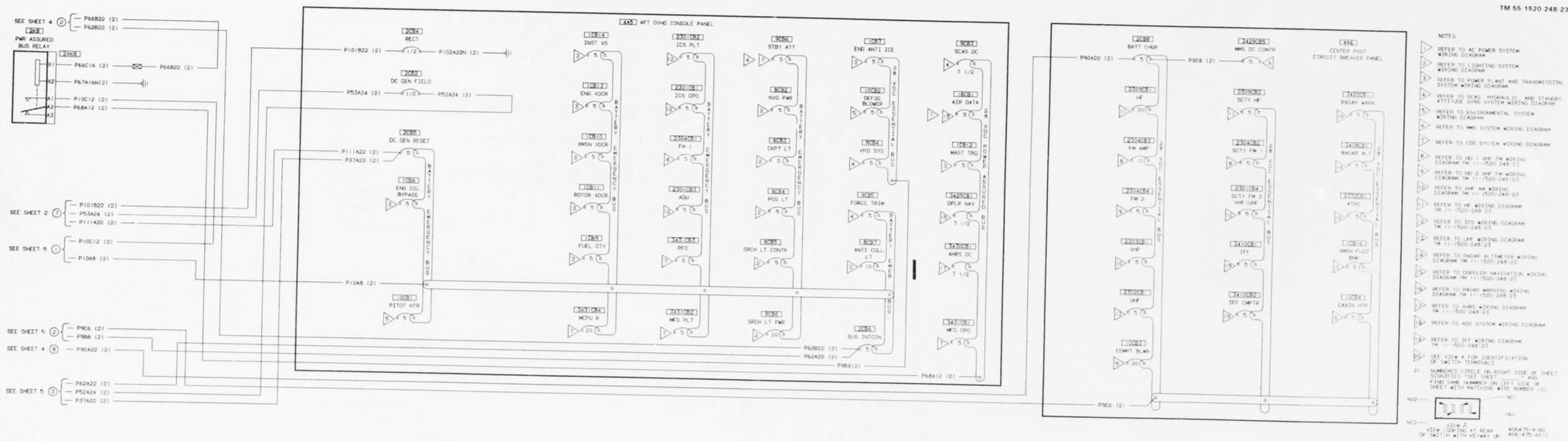

Figure FO-1. DC Power Wiring Diagram (Sheet 6 of 6)

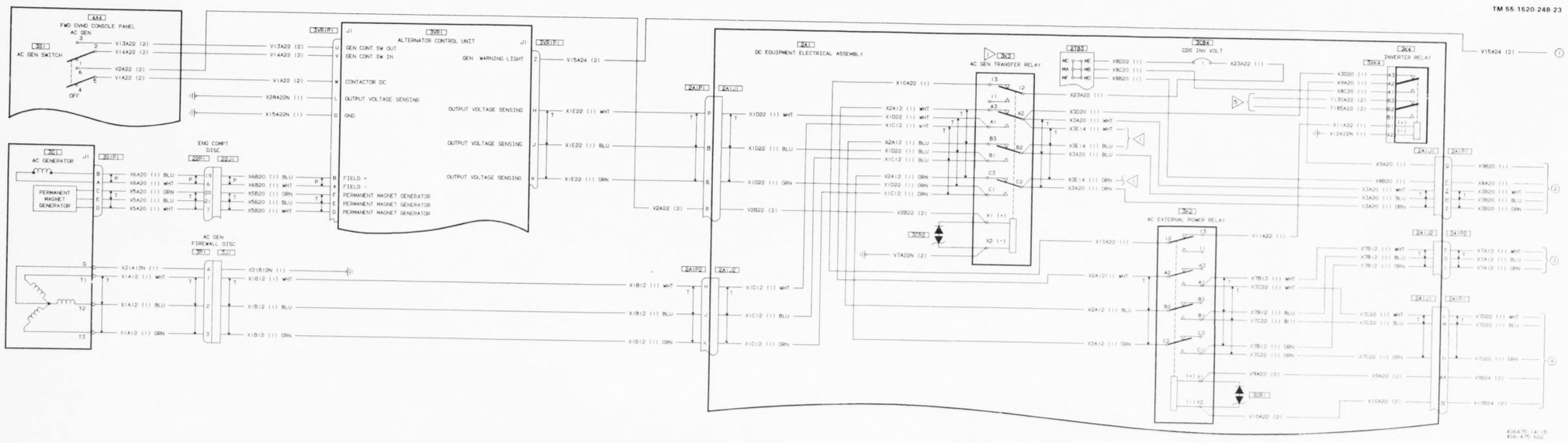

Figure FO-2. AC Power Wiring Diagram (Sheet 1 of 2)

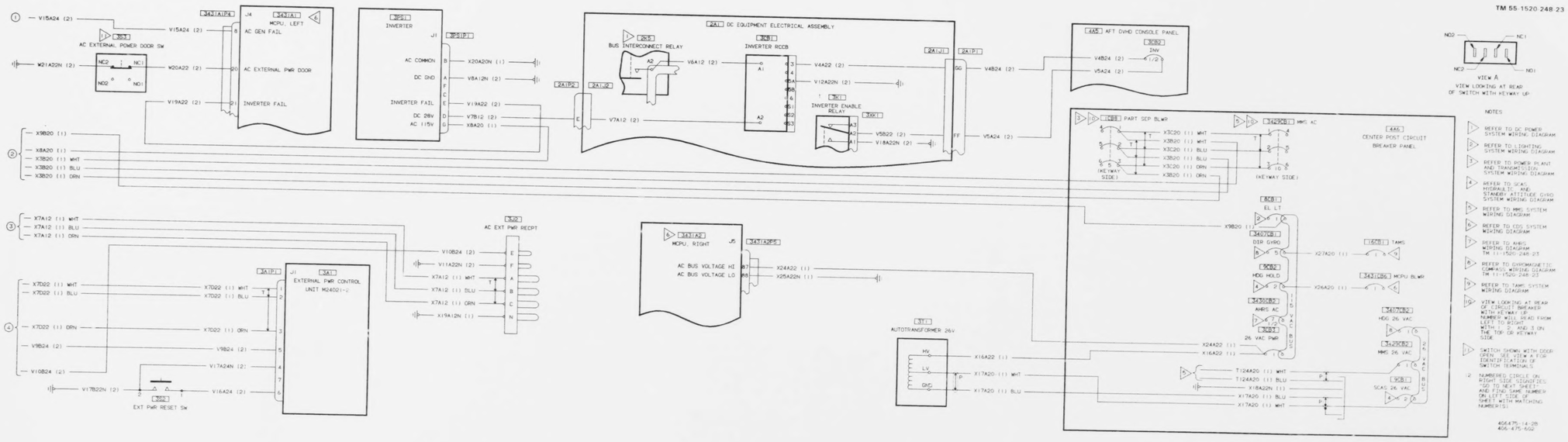
2A1 DC EQUIPMENT ELECTRICAL ASSEMBLY
BUS INTERCONNECT RELAY
INVERTER RCCB
INVERTER ENABLE RELAY
INVERTER
AC EXTERNAL POWER DOOR SW
MCPU, LEFT
MCPU, RIGHT
EXTERNAL PWR CONTROL UNIT M24021-2
EXT PWR RESET SW
AC EXT PWR RECPT
AUTOTRANSFORMER 26V
4A5 AFT OVHD CONSOLE PANEL
4A5 CENTER POST CIRCUIT BREAKER PANEL
PART SEP BLWR
MMS AC
EL LT
DIR GYRO
HDG HOLD
AHRS AC
HDG 26 VAC
MMS 26 VAC
SCAS 26 VAC
TAMS
MCPU BLWR
26 VAC PWR
AC BUS VOLTAGE HI
AC BUS VOLTAGE LO
AC EXTERNAL PWR DOOR
INVERTER FAIL
AC GEN FAIL
AC COMMON
DC GND
DC 28V
AC 115V
VIEW A
VIEW LOOKING AT REAR OF SWITCH WITH KEYWAY UP
NOTES
1 REFER TO DC POWER SYSTEM WIRING DIAGRAM
2 REFER TO LIGHTING SYSTEM WIRING DIAGRAM
3 REFER TO POWER PLANT AND TRANSMISSION SYSTEM WIRING DIAGRAM
4 REFER TO SCAS, HYDRAULIC, AND STANDBY ATTITUDE GYRO SYSTEM WIRING DIAGRAM
5 REFER TO MMS SYSTEM WIRING DIAGRAM
6 REFER TO EDS SYSTEM WIRING DIAGRAM
7 REFER TO AHRS WIRING DIAGRAM TM 11-1520-248-23
8 REFER TO GYROMAGNETIC COMPASS WIRING DIAGRAM TM 11-1520-248-23
9 REFER TO TAMS SYSTEM WIRING DIAGRAM
10 VIEW LOOKING AT REAR OF CIRCUIT BREAKER WITH KEYWAY UP. NUMBER WILL READ FROM TOP TO BOTTOM WITH 1 AND 3 ON THE TOP OR KEYWAY SIDE
11 SWITCH SHOWN WITH DOOR OPEN. SEE ITEM 4 FOR IDENTIFICATION OF SWITCH TERMINALS
12 NUMBERED CIRCLE ON RIGHT SIDE SIGNIFIES "GO TO NEXT SHEET" AND RING SAME NUMBER ON LEFT SIDE OF SHEET WITH MATCHING NUMBER(S)
406 475-14-28
406 475-602

Figure FO-2. AC Power Wiring Diagram (Sheet 2 of 2)

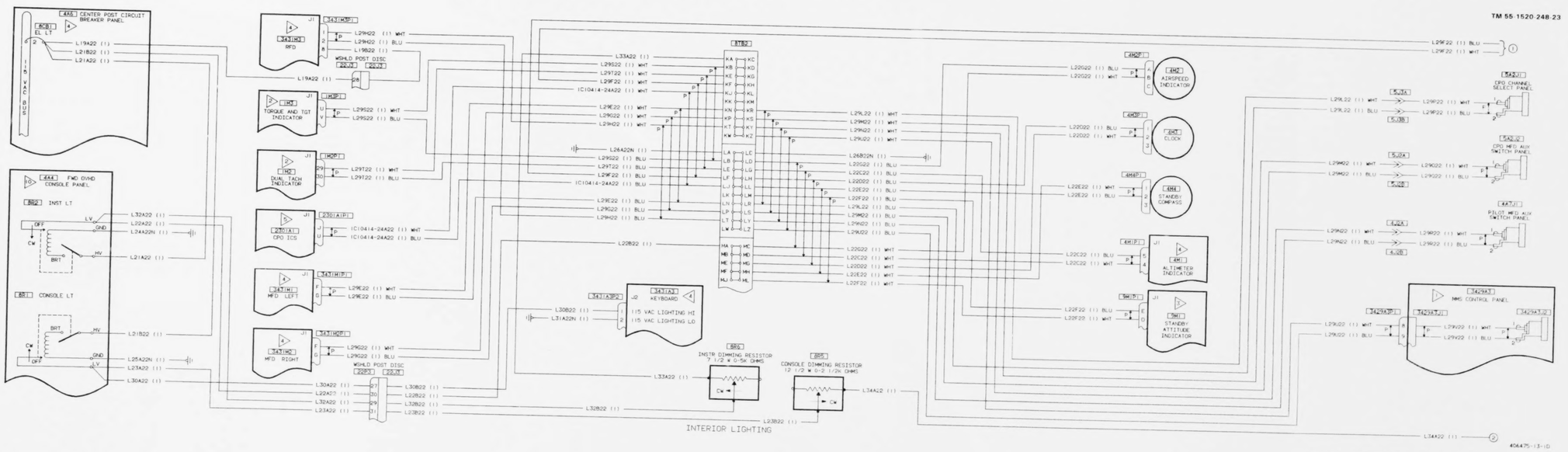
4A6 CENTER POST CIRCUIT BREAKER PANEL
4A4 FWD OVHD CONSOLE PANEL
BR2 INSTR LT
BR1 CONSOLE LT
J1 34J1M2P
34J1M2 RFD
J1 34J1M3P
34J1M3 TORQUE AND TGT INDICATOR
J1 34J1M4P
34J1M4 DUAL TACH INDICATOR
J1 2301A1P
2301A1 CPD ICS
J1 34J1M1P
34J1M1 MFD LEFT
J1 34J1M5P
34J1M5 MFD RIGHT
W3HLD POST DISC 22D3 22D4
W3HLD POST DISC 22D5 22D6
A1B2
34J1A3P J2 34J1A3 KEYBOARD
115 VAC LIGHTING HI
115 VAC LIGHTING LO
BR3 INSTR DIMMING RESISTOR 7 1/2 W 0-5K OHMS
BR5 CONSOLE DIMMING RESISTOR 12 1/2 W 0-2 1/2K OHMS
4H2P 4H2 AIRSPEED INDICATOR
4H3P 4H3 CLOCK
4H4P 4H4 STANDBY COMPASS
4H1P J1 4H1 ALTIMETER INDICATOR
5W1P J1 5W1 STANDBY ATTITUDE INDICATOR
4A2J1 CPD CHANNEL SELECT PANEL
4A2J2 CPD MFD AUX SWITCH PANEL
4A7J1 PILOT MFD AUX SWITCH PANEL
34J9A3 NMS CONTROL PANEL
34J9A3P1 34J9A3J1 34J9A3J2
INTERIOR LIGHTING

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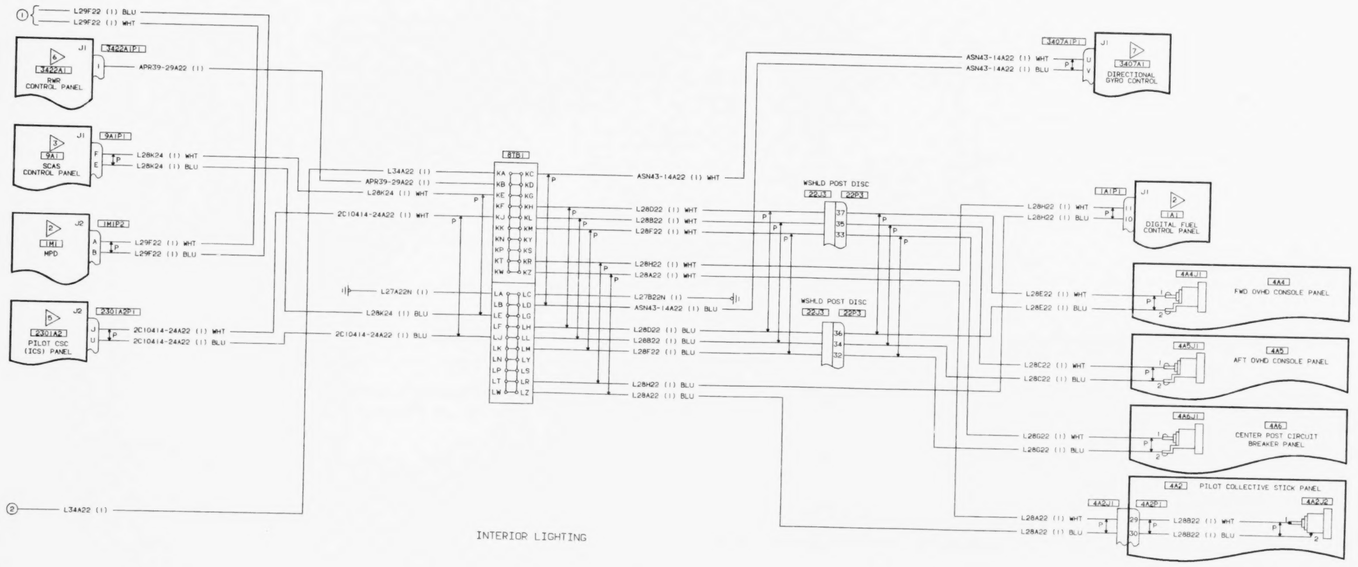
Figure FO-3. Lighting Wiring Diagram (Sheet 1 of 4)



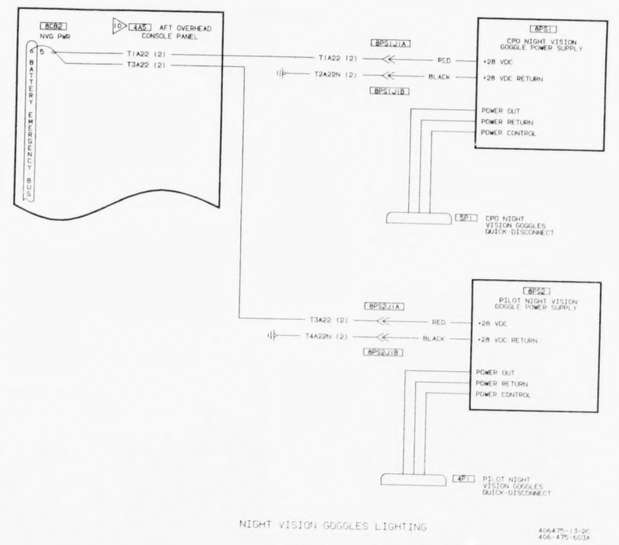


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Figure FO-3. Lighting Wiring Diagram (Sheet 2 of 4)

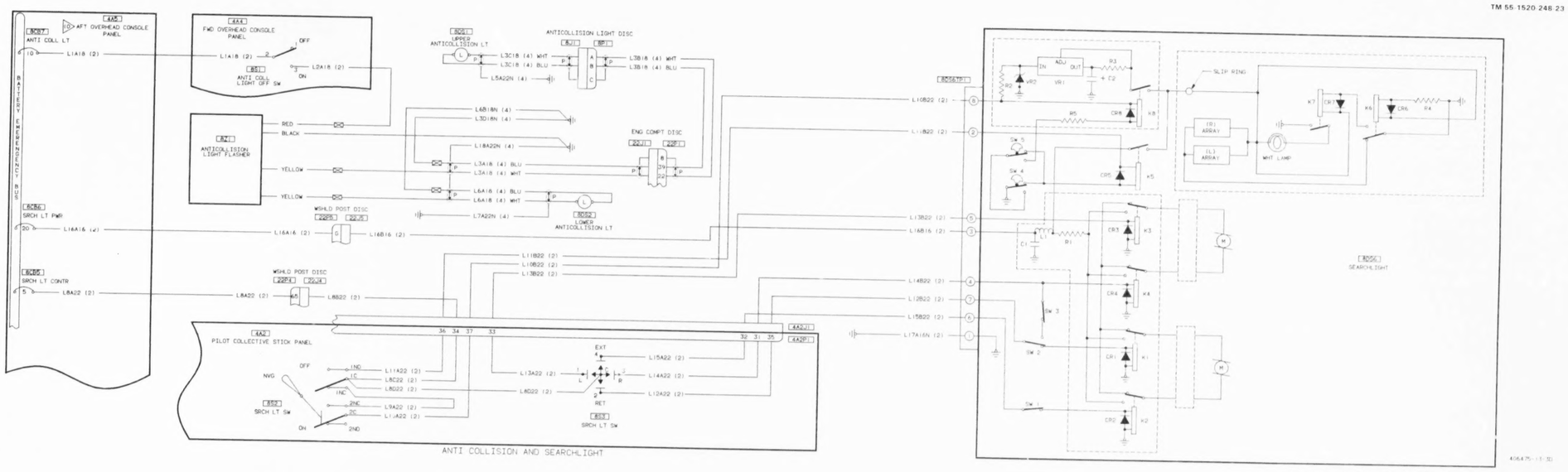
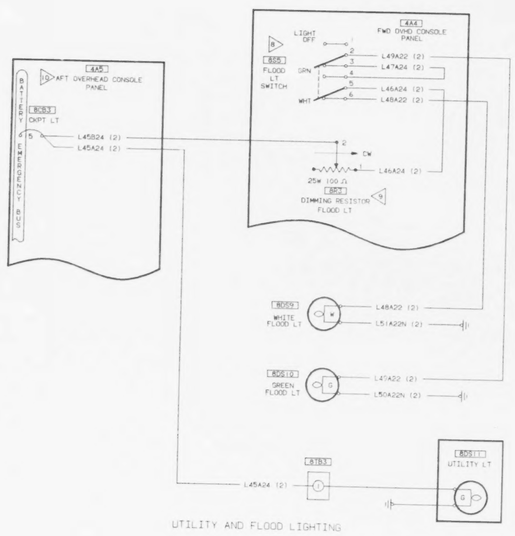
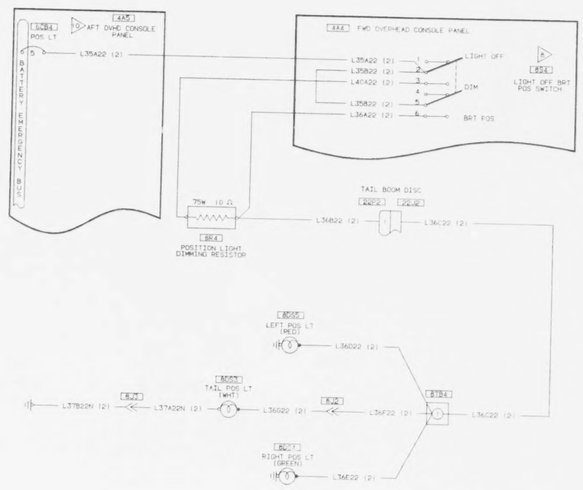


Figure FO-3. Lighting Wiring Diagram (Sheet 3 of 4)



UTILITY AND FLOOD LIGHTING



POSITION LIGHTS

NOTES

1. REFER TO HME SYSTEM WIRING DIAGRAM
2. REFER TO POWER PLANT AND TRANSMISSION SYSTEM WIRING DIAGRAM
3. REFER TO SCAS, HYDRAULICS AND STANDBY ATTITUDE GYRO SYSTEM WIRING DIAGRAM
4. REFER TO CDS SYSTEM WIRING DIAGRAM
5. REFER TO ICS AND ATHS WIRING DIAGRAM, TM 11-1520-248-23
6. REFER TO RADAR WARNING WIRING DIAGRAM, TM 11-1520-248-23
7. REFER TO GYROMAGNETIC WIRING DIAGRAM, TM 11-1520-248-23
8. SEE VIEW A FOR TOGGLE SWITCH POSITIONS
9. SEE VIEW B FOR TERMINAL CONNECTIONS
10. REFER TO DC POWER SYSTEM WIRING DIAGRAM

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Figure FO-3. Lighting Wiring Diagram (Sheet 4 of 4)

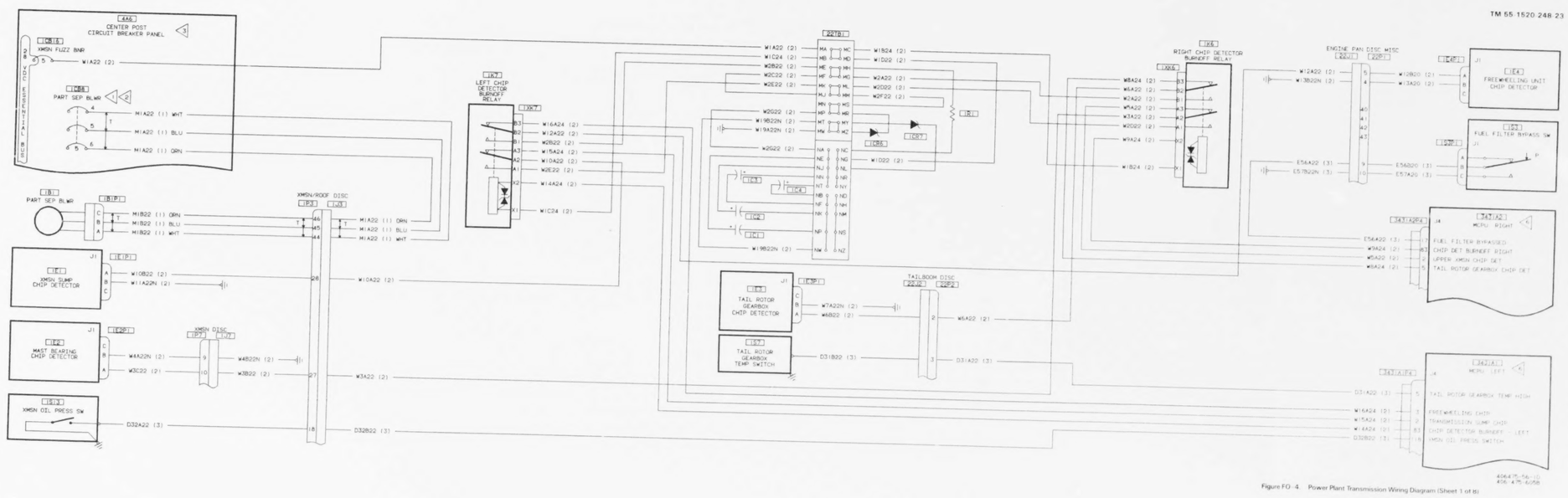

Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 1 of 8)

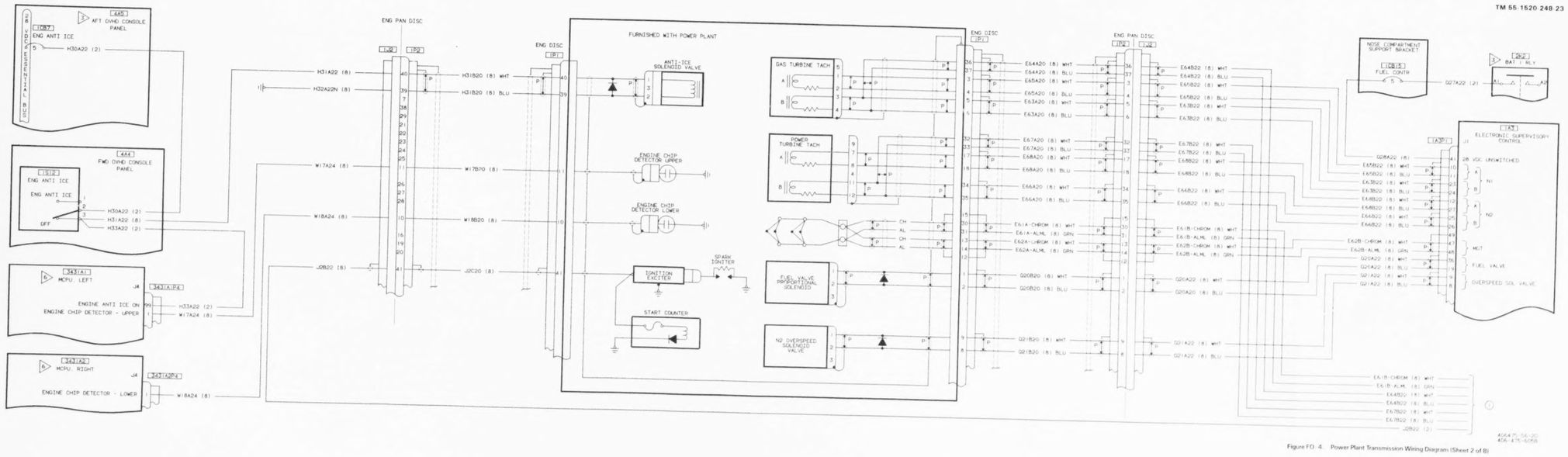

Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 2 of 8)

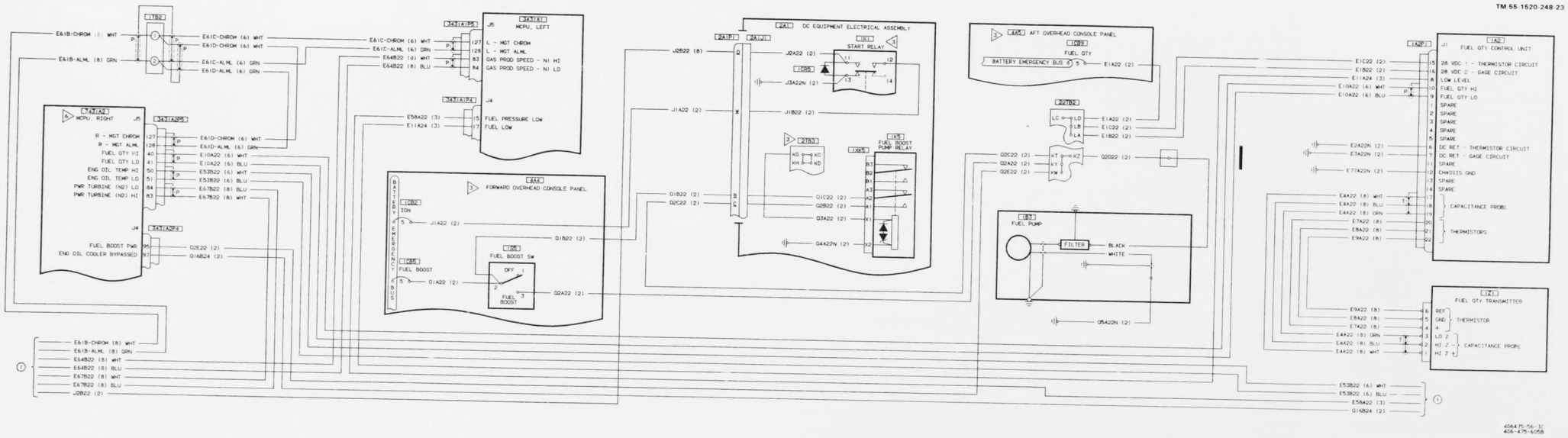

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Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 3 of 8)

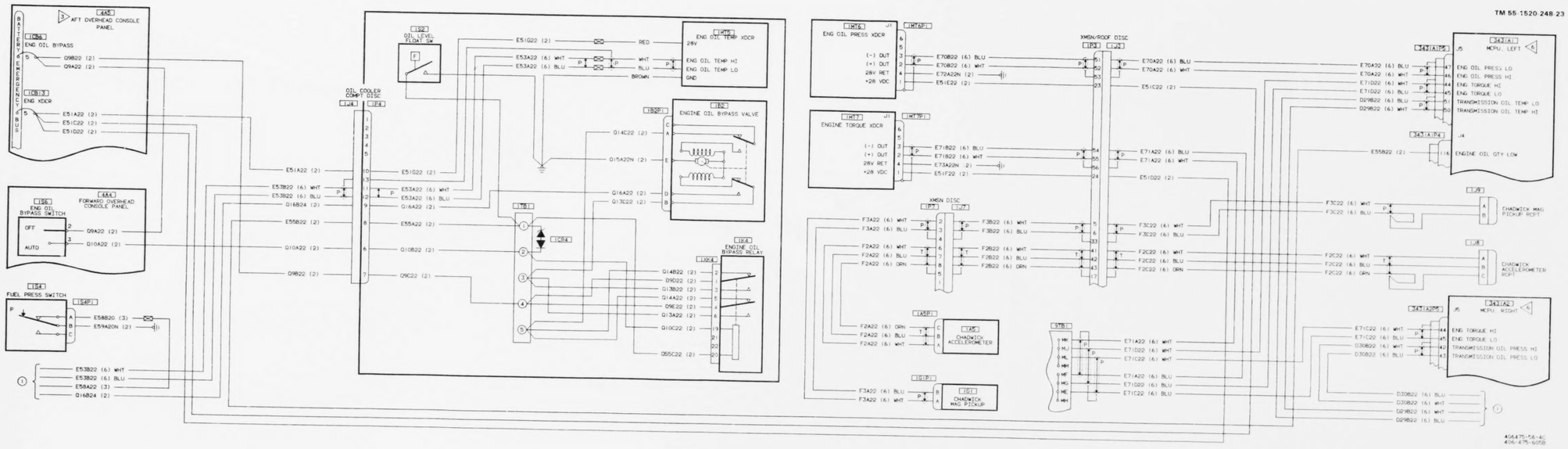

Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 4 of 8)

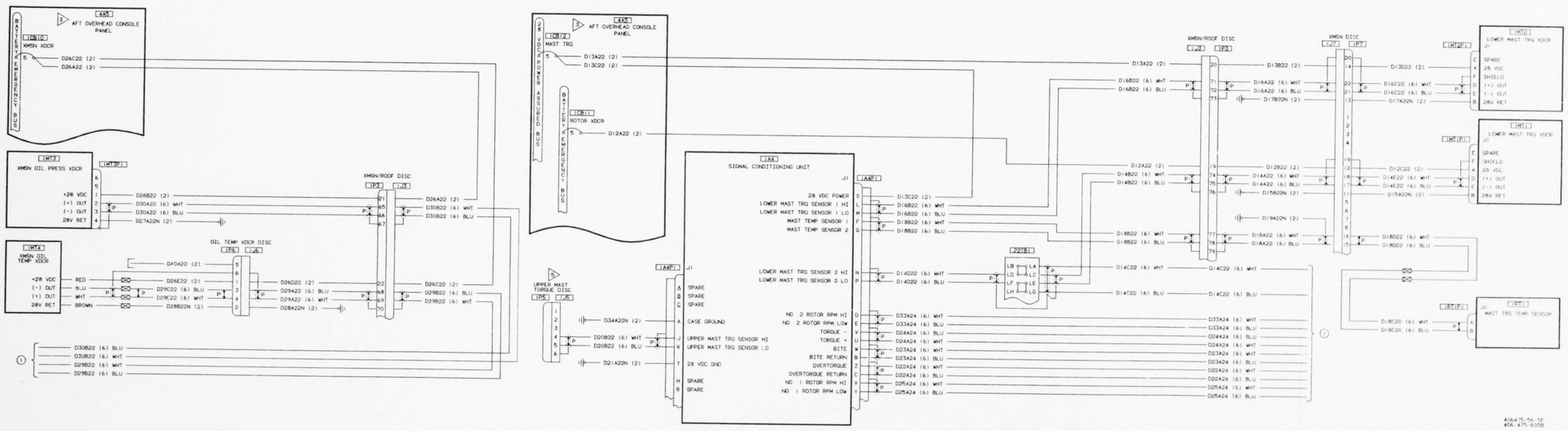

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Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 5 of 8)

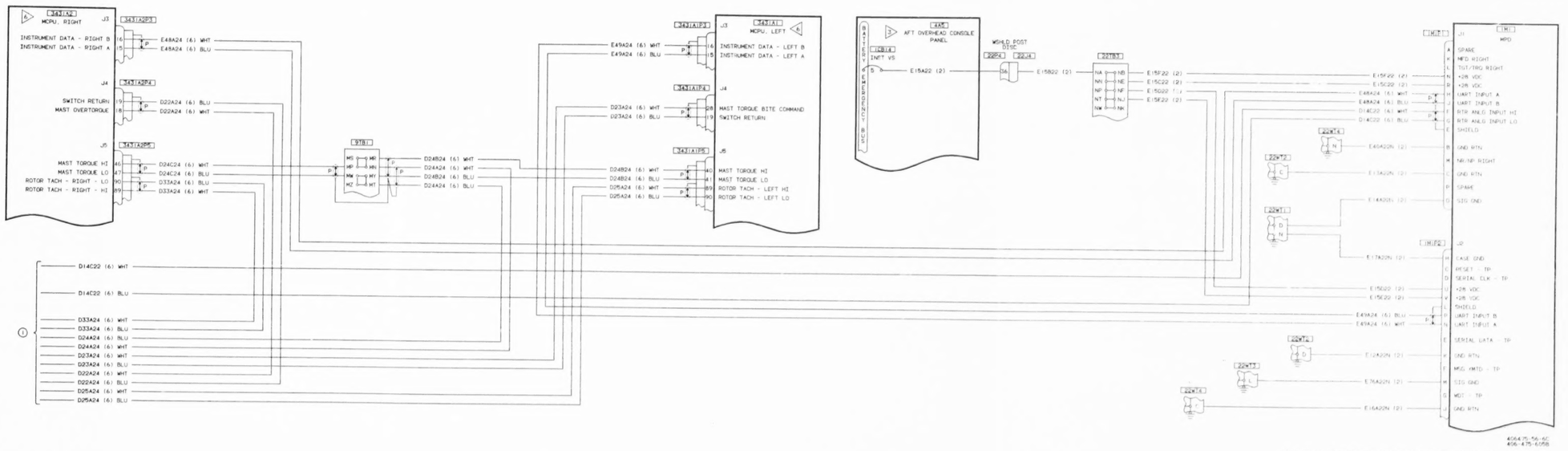

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Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 6 of 8)

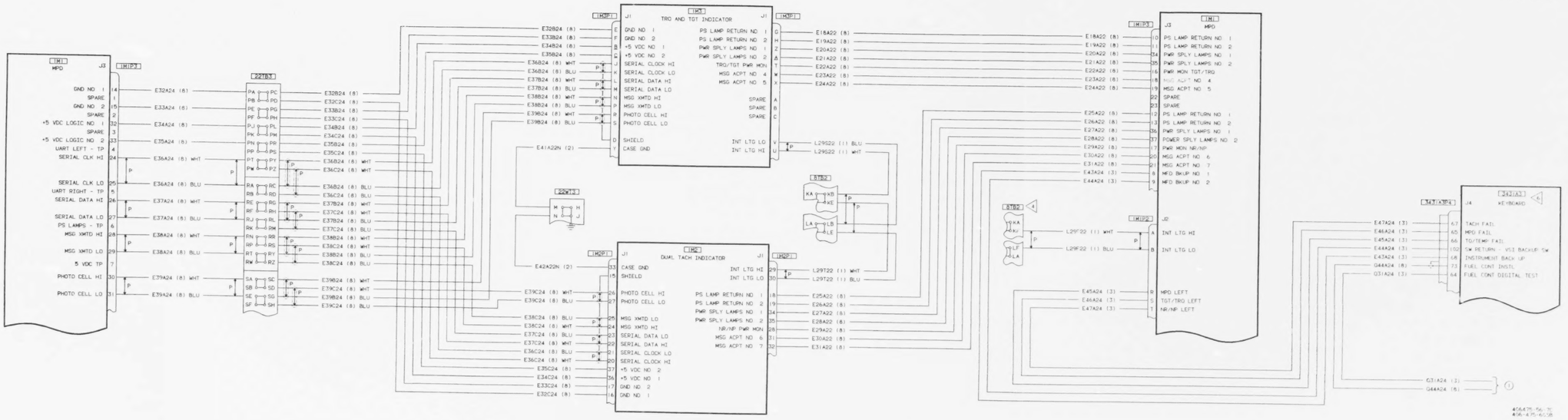

Figure FO-4. Power Plant Transmission Wiring Diagram (Sheet 7 of 8)

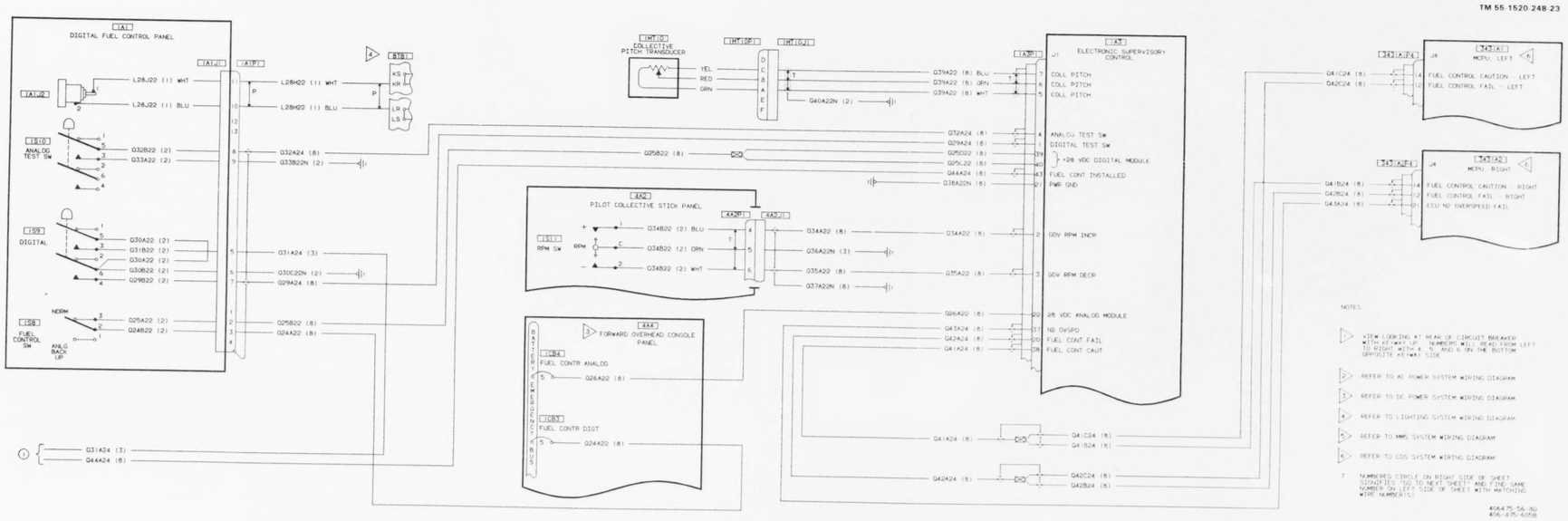

Figure FO-4 Power Plant Transmission Wiring Diagram (Sheet 8 of 8)

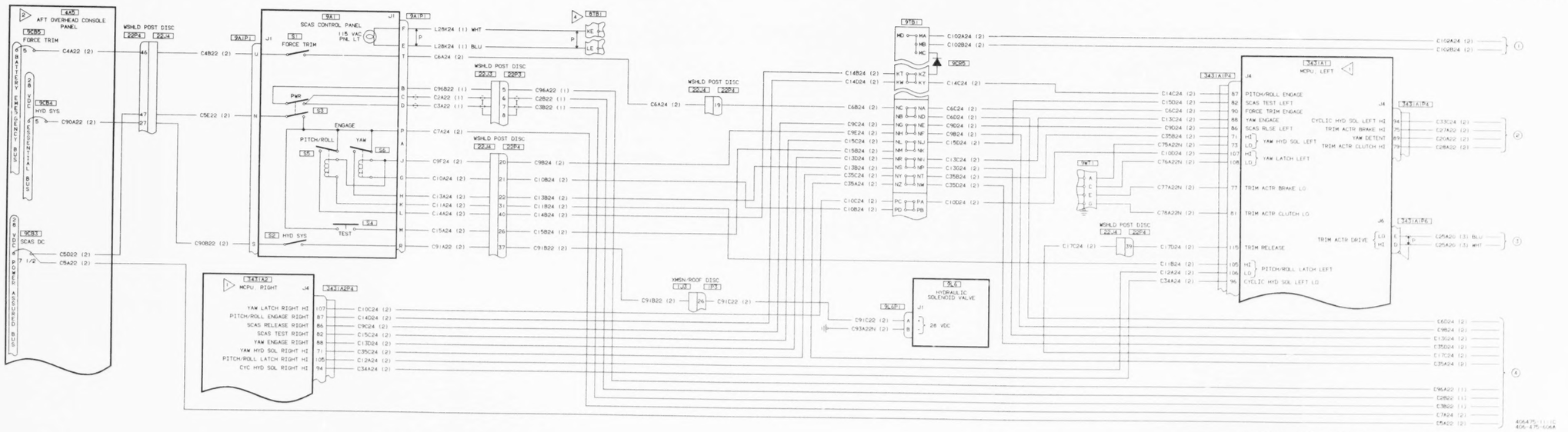

Figure FO-5. SCAS, Hydraulic and Standby Attitude Gyro Wiring Diagram (Sheet 1 of 6)

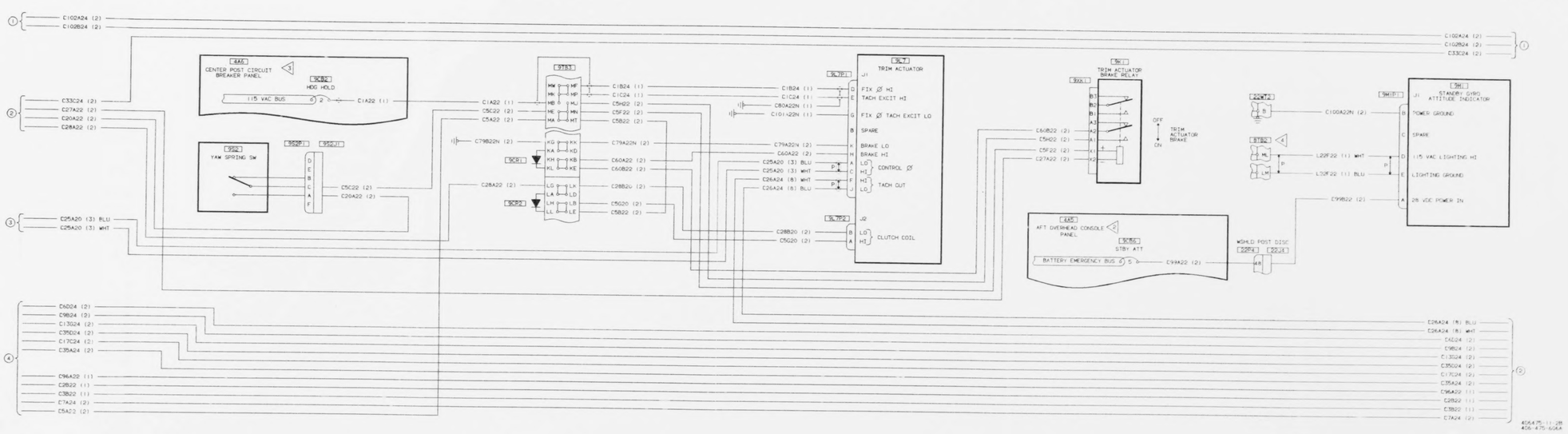

Figure FO-5. SCAS, Hydraulic and Standby Attitude Gyro Wiring Diagram (Sheet 2 of 6)

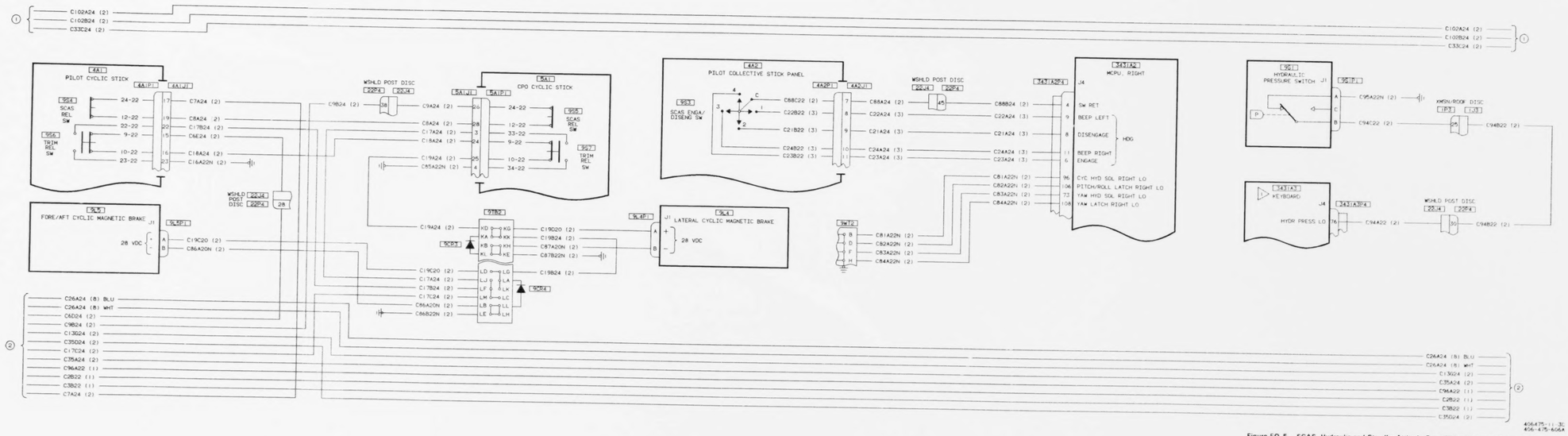

Figure FO-5. SCAS, Hydraulic and Standby Attitude Gyro Wiring Diagram (Sheet 3 of 6)

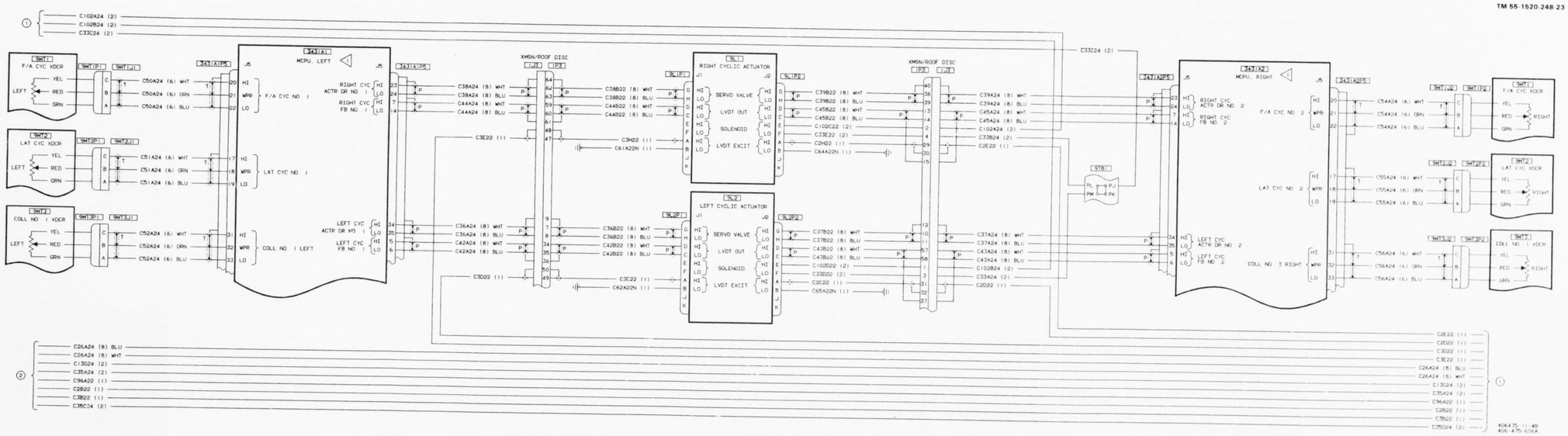

Figure FO-5. SCAS, Hydraulic and Standby Attitude Gyro Wiring Diagram (Sheet 4 of 6)

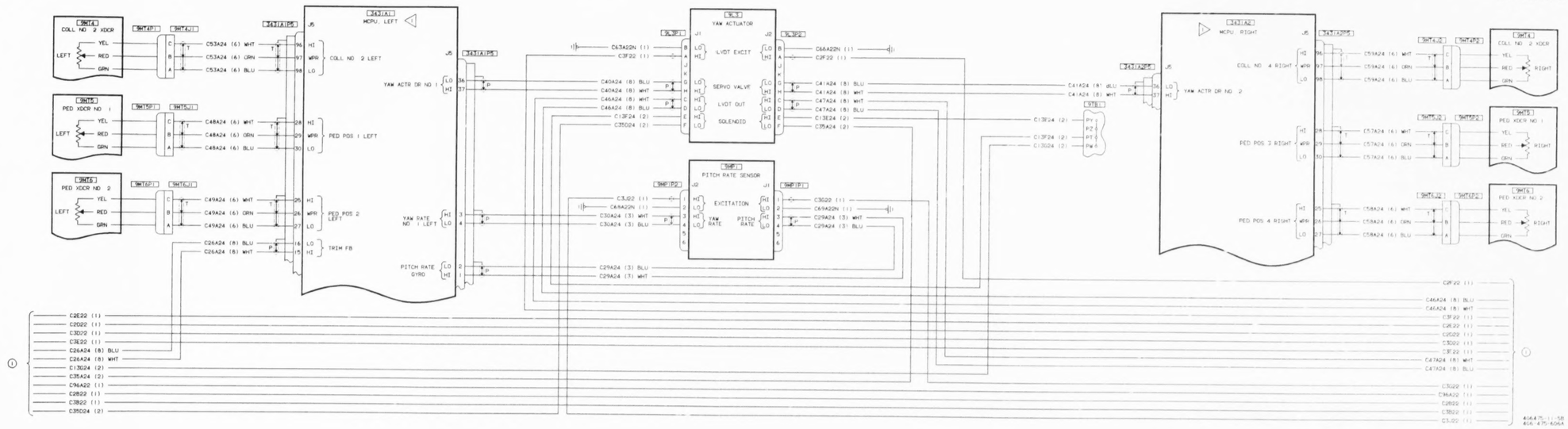

Figure FO-5. SCAS, Hydraulic and Standby Attitude Gyro Wiring Diagram (Sheet 5 of 6)

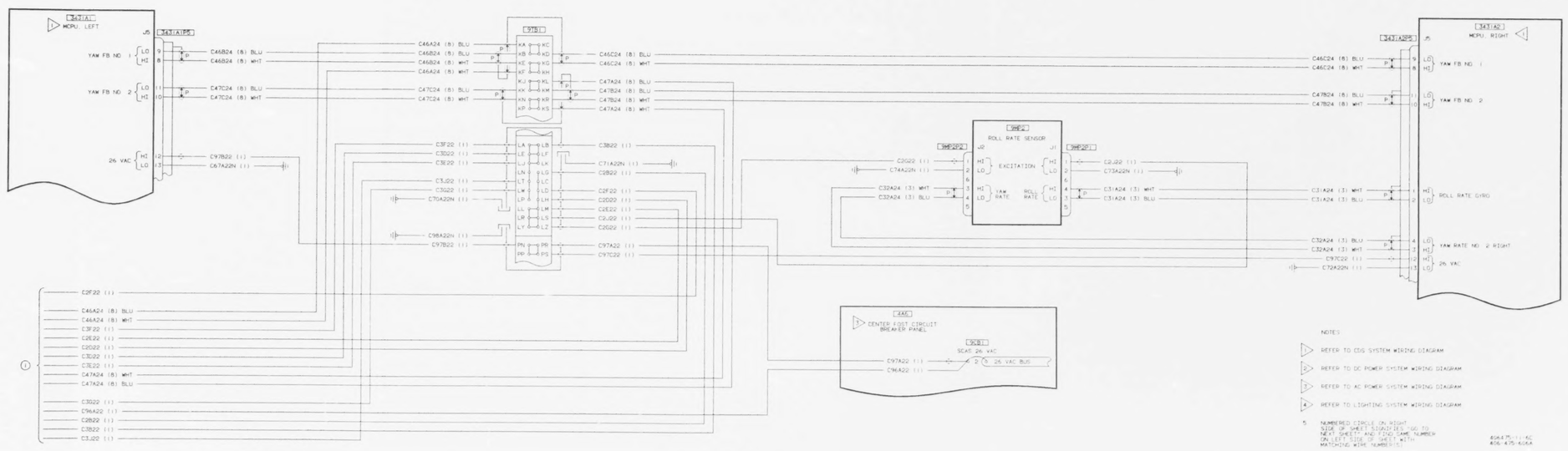

Figure FO-5. SCAS, Hydraulic and Standby Attitude Gyro Wiring Diagram (Sheet 6 of 6)

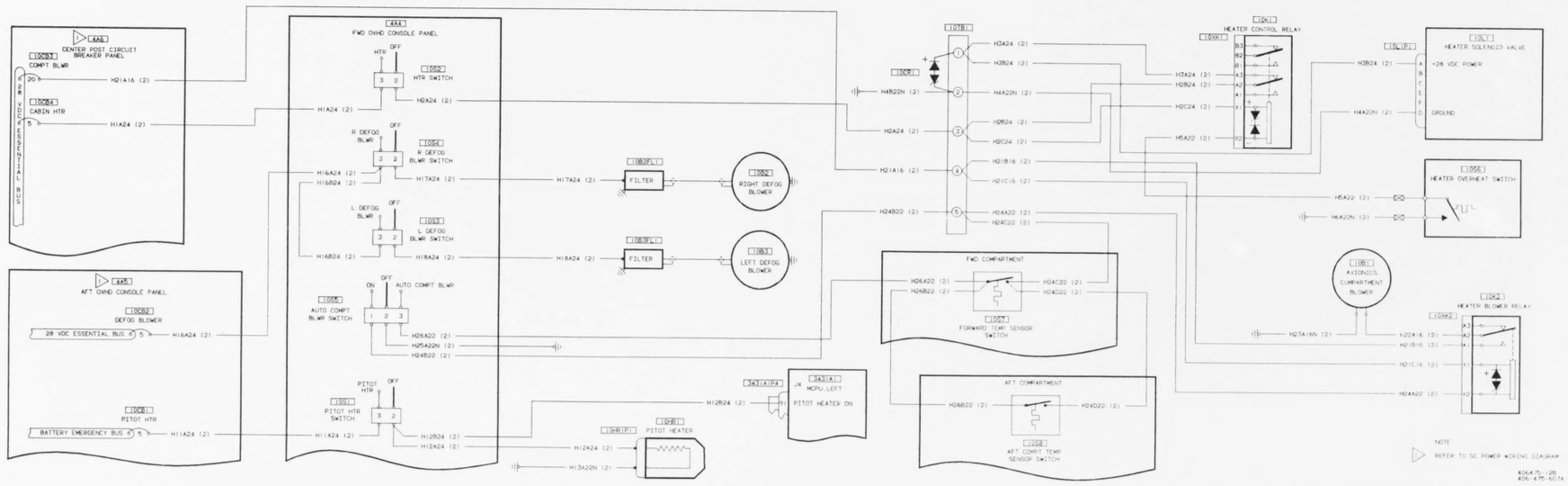

Figure FO-6. Environmental Control System

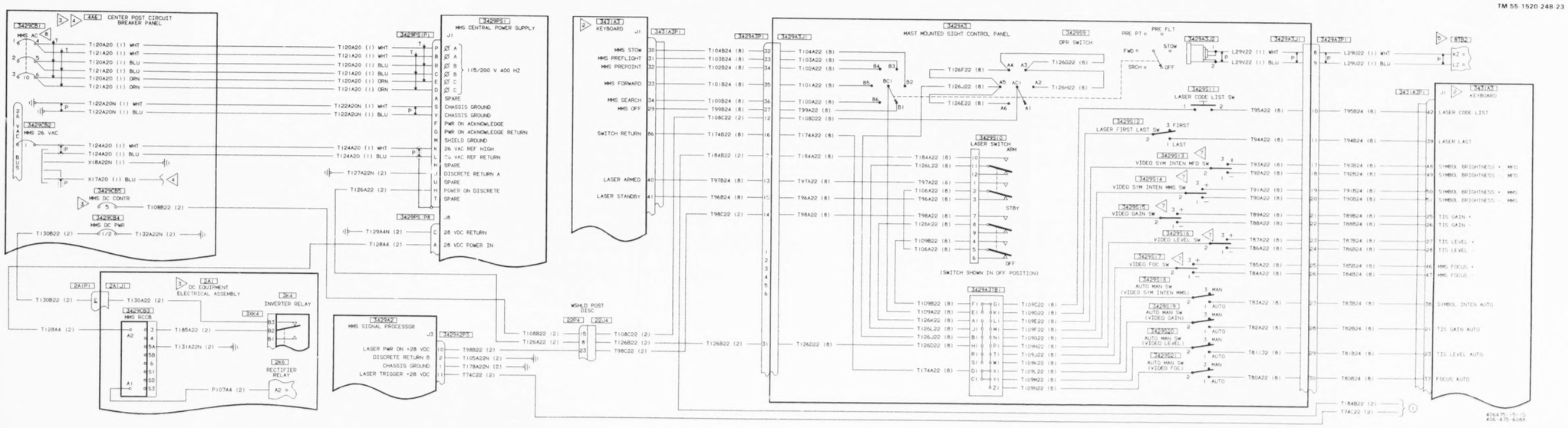

Figure FO-7. MMS Wiring Diagram (Sheet 1 of 4)

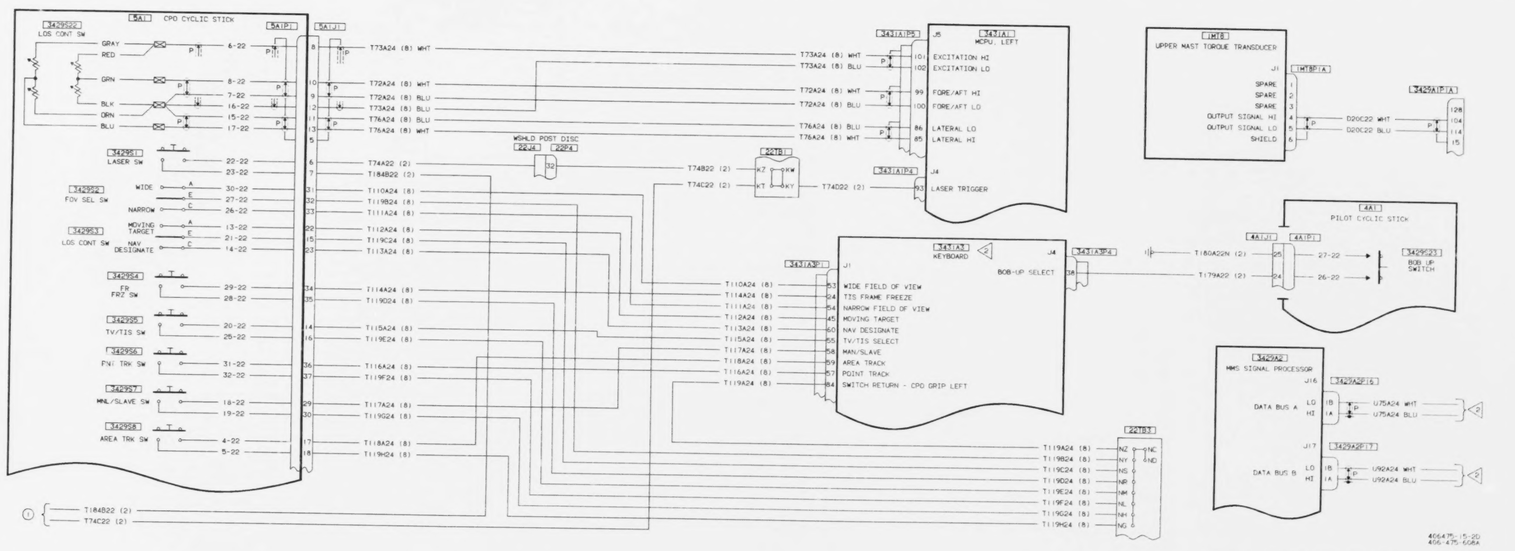

Figure FO-7. MMS Wiring Diagram (Sheet 2 of 4)

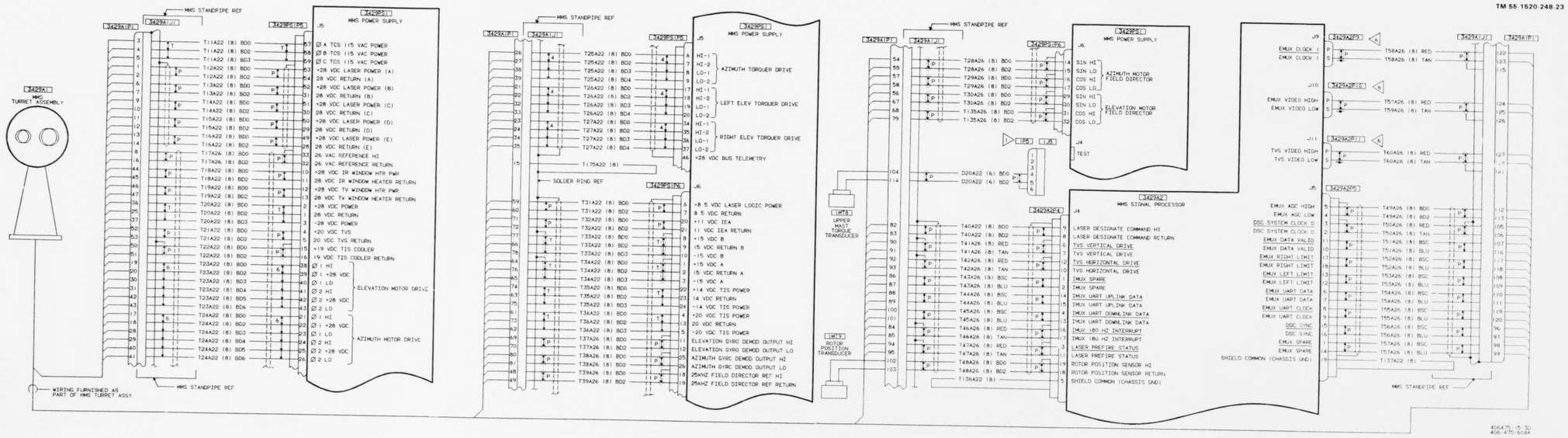

Figure FO-7. MMS Wiring Diagram (Sheet 3 of 4)

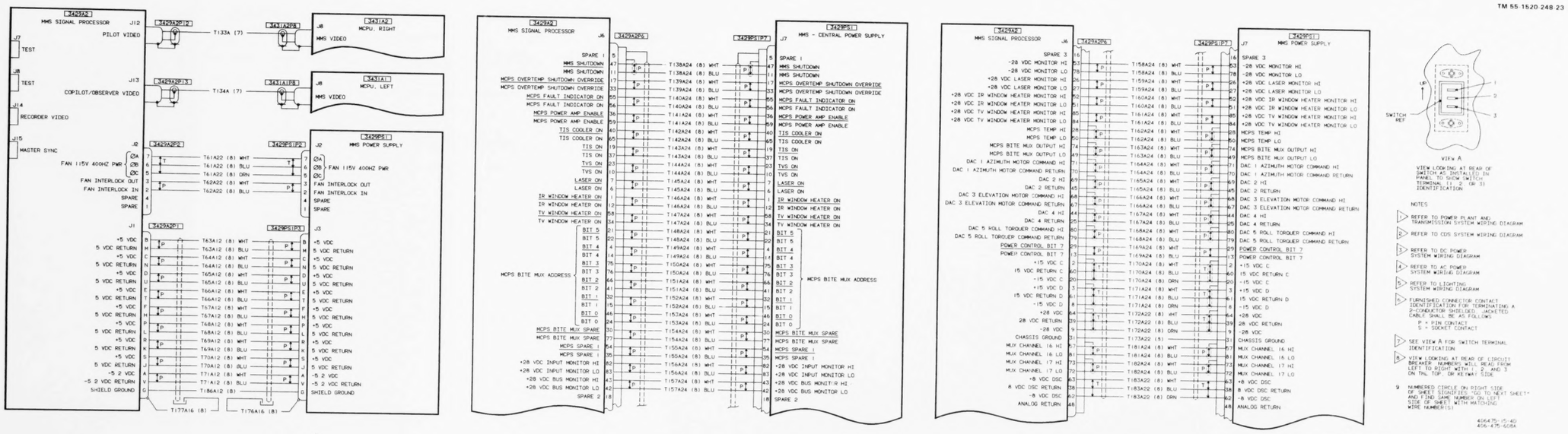

Figure FO-7. MMS Wiring Diagram (Sheet 4 of 4)

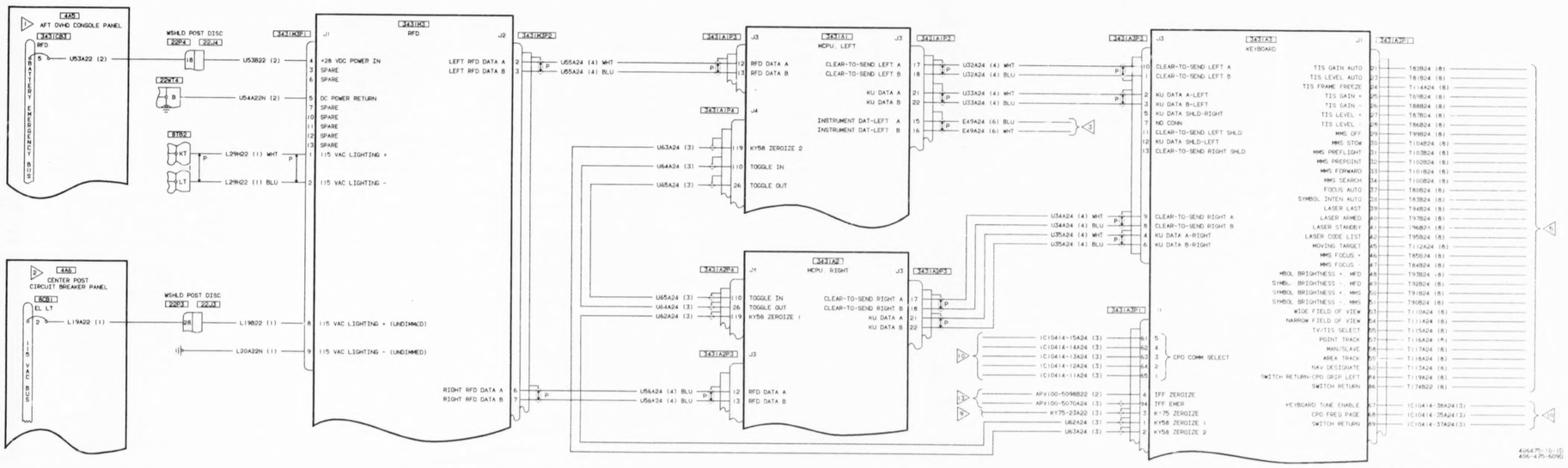

Figure FO-8. CDS Wiring Diagram (Sheet 1 of 9)

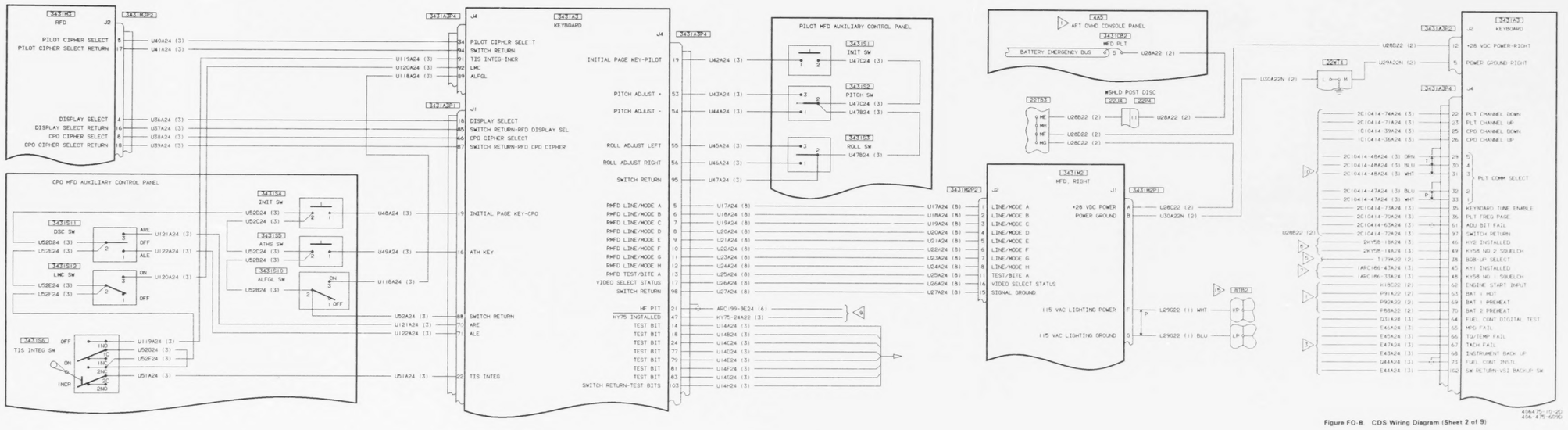

Figure FO-8 CDS Wiring Diagram (Sheet 2 of 9)

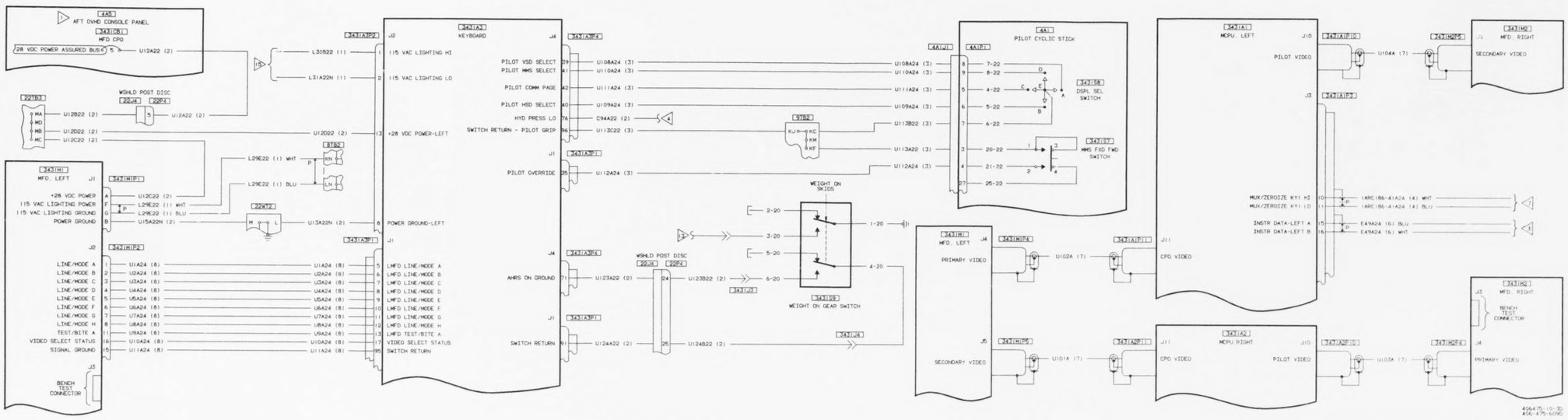

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Figure FO-8 CDS Wiring Diagram (Sheet 3 of 9)

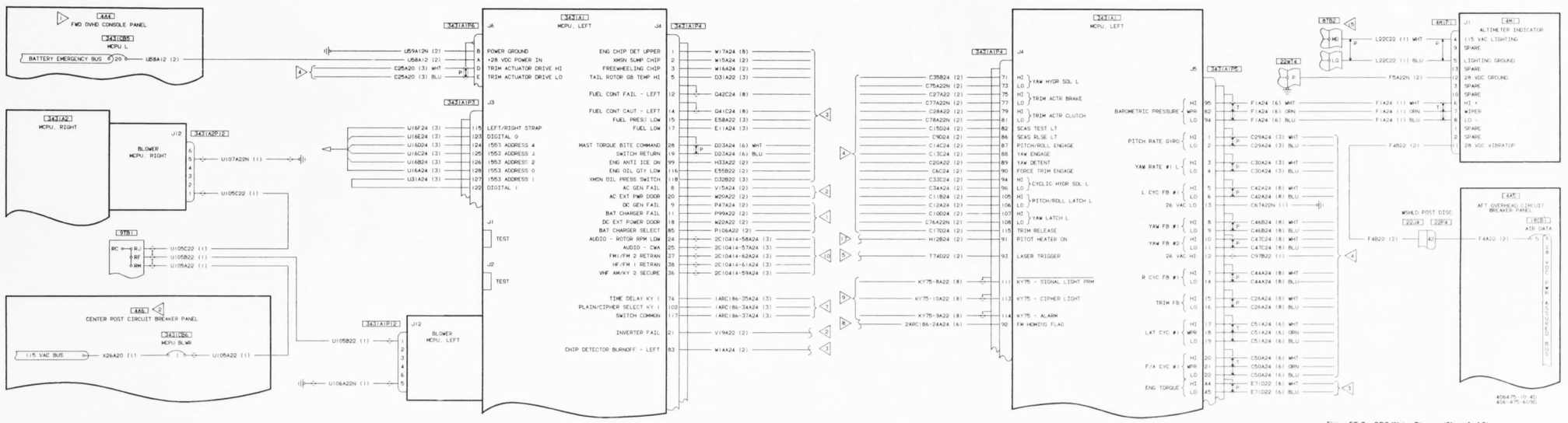


Figure FO-8. CDS Wiring Diagram (Sheet 4 of 9)

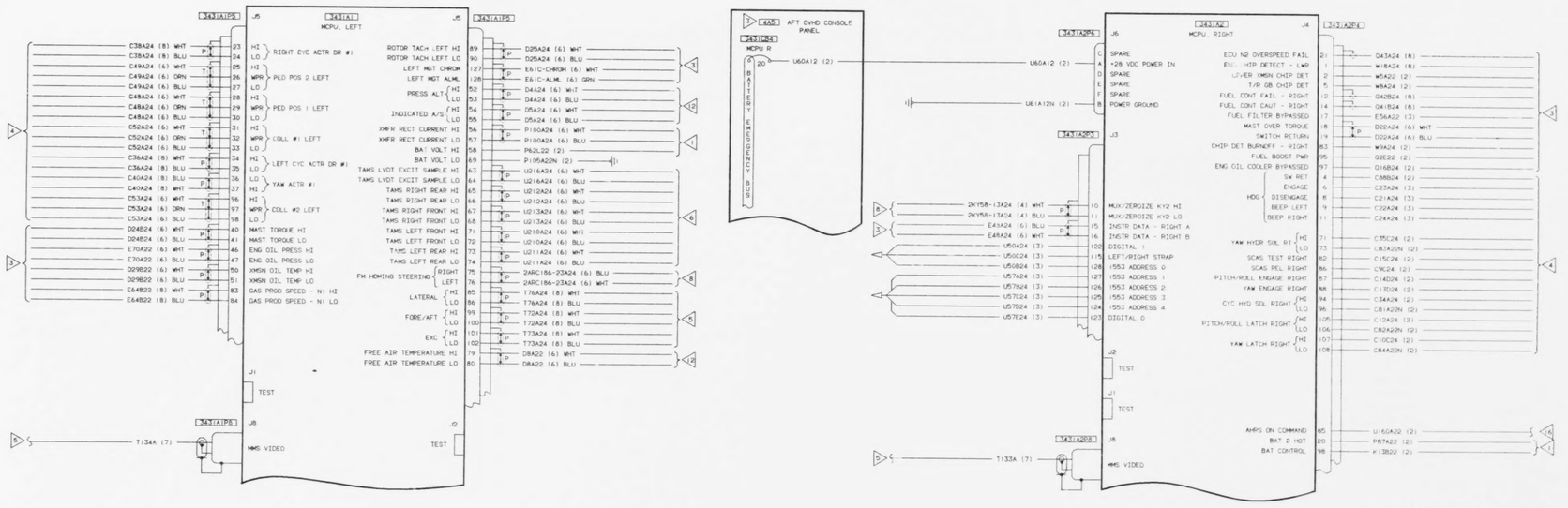
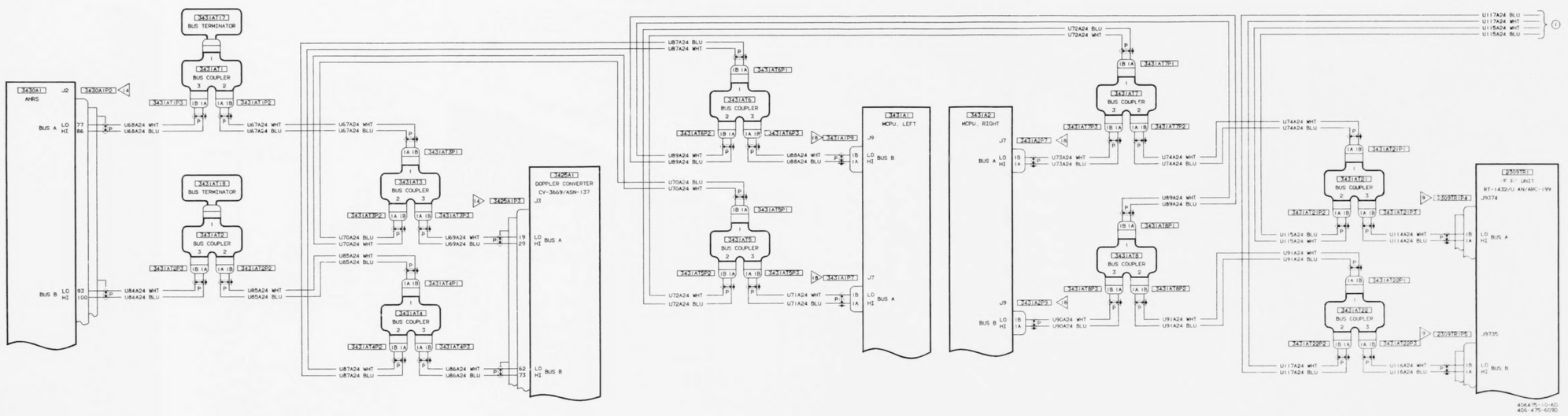


Figure FO-8. CDS Wiring Diagram (Sheet 5 of 9)


A430A1
AHRS
J2
A430A1P2
BUS A
LO
HI
77
86
BUS B
93
100
A43TA1P3
A43TA1P2
A43TA1P4
A43TA2P3
A43TA2P2
A43TA2P4
U68A24 WHT
U68A24 BLU
U67A24 WHT
U67A24 BLU
U84A24 WHT
U84A24 BLU
U85A24 WHT
U85A24 BLU
A43TA1
BUS COUPLER
A43TA2
BUS COUPLER
A43TA7
BUS TERMINATOR
A43TA8
BUS TERMINATOR
U70A24 BLU
U70A24 WHT
U69A24 WHT
U69A24 BLU
U87A24 WHT
U87A24 BLU
U86A24 WHT
U86A24 BLU
A43TA3
BUS COUPLER
A43TA4
BUS COUPLER
A43TA3P2
A43TA3P3
A43TA4P2
A43TA4P3
A43TA3P1
A43TA4P1
A425A1P3
A425A1
DOPPLER CONVERTER
CV-3669/ASN-137
J3
19
29
62
73
LO
HI
BUS A
BUS B
U72A24 BLU
U72A24 WHT
U89A24 WHT
U89A24 BLU
U71A24 WHT
U71A24 BLU
U88A24 WHT
U88A24 BLU
A43TA6
BUS COUPLER
A43TA5
BUS COUPLER
A43TA6P2
A43TA6P3
A43TA5P2
A43TA5P3
A43TA6P1
A43TA5P1
A43TA1P9
A43TA1P7
A43TA1
MCPU, LEFT
J9
J7
A43TA2
MCPU, RIGHT
A43TA2P7
A43TA2P5
U73A24 WHT
U73A24 BLU
U90A24 WHT
U90A24 BLU
U91A24 WHT
U91A24 BLU
A43TA7
BUS COUPLER
A43TA8
BUS COUPLER
A43TA7P3
A43TA7P2
A43TA8P3
A43TA8P2
A43TA7P1
A43TA8P1
U74A24 WHT
U74A24 BLU
U115A24 BLU
U115A24 WHT
U114A24 WHT
U114A24 BLU
U117A24 WHT
U117A24 BLU
U116A24 WHT
U116A24 BLU
A43TA2P2
A43TA2P4
A43TA2P1
A43TA2P3
A43TA22P2
A43TA22P3
A43TA22P1
A43TA22
BUS COUPLER
A43TA7P1
A43TA8P1
A43TA1P1
A43TA1P2
A43TA1P3
A43TA1P4
A43TA1P5
A43TA1P6
A43TA1P8
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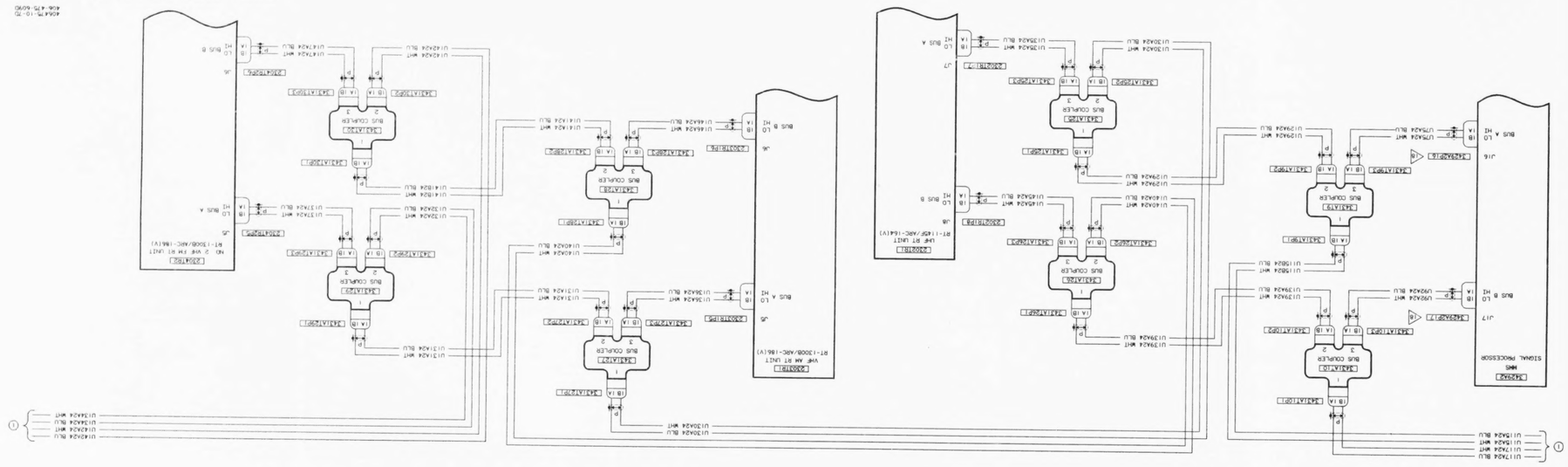
A43TA1P49

Figure FO-8 CDS Wiring Diagram (Sheet 7 of 9)



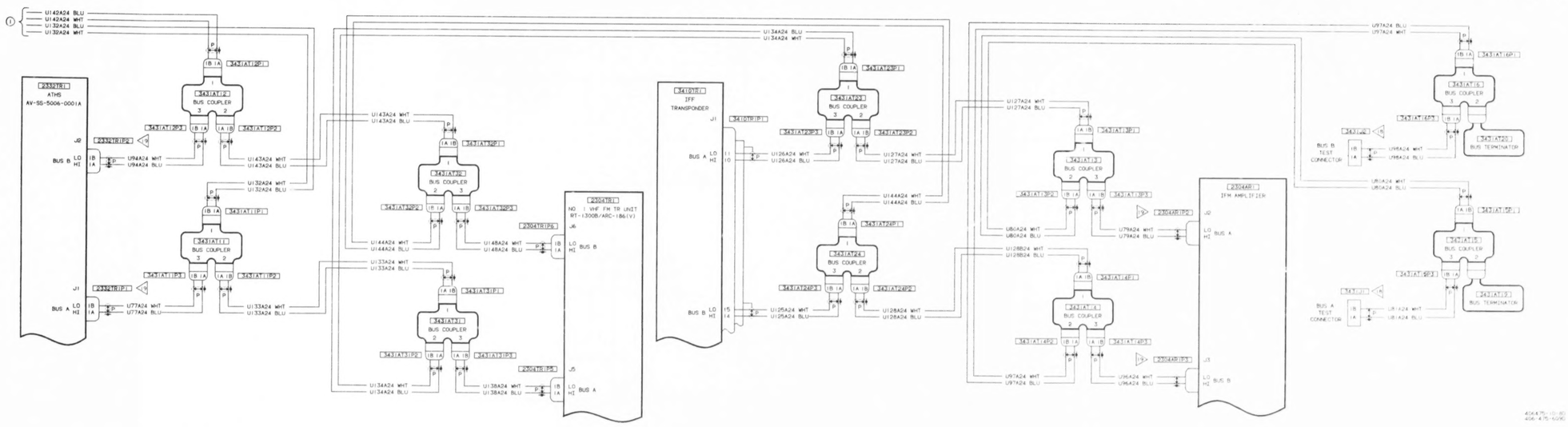


Figure FO-8. CDS Wiring Diagram (Sheet 8 of 9)

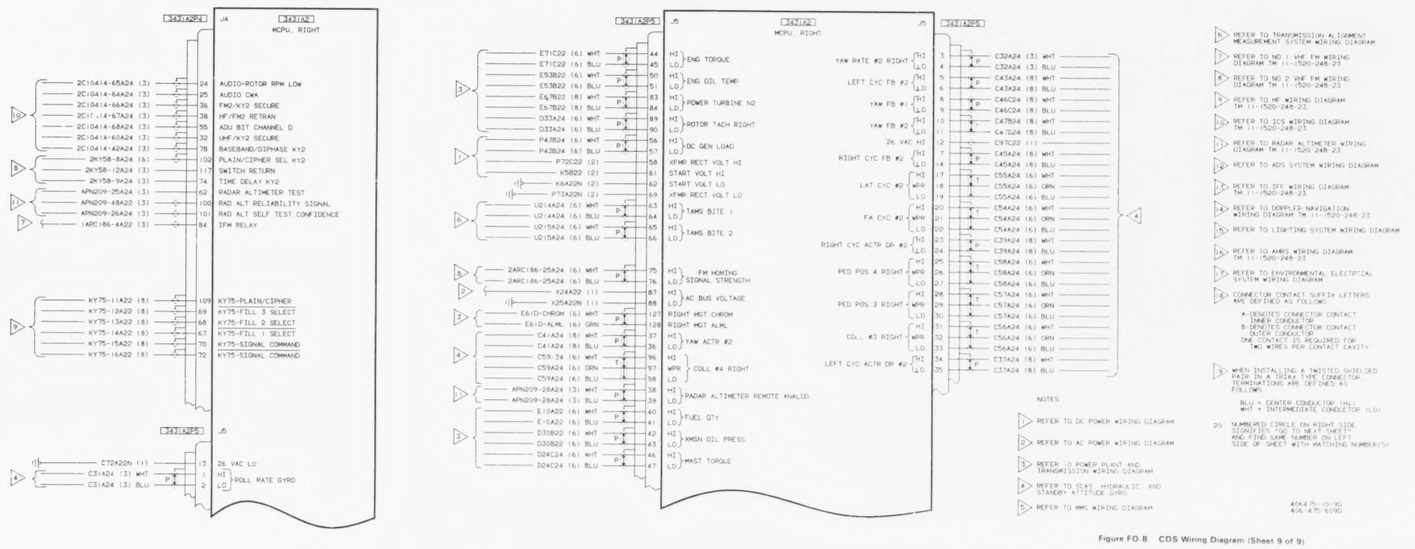


Figure FO-8 CDS Wiring Diagram (Sheet 9 of 9)

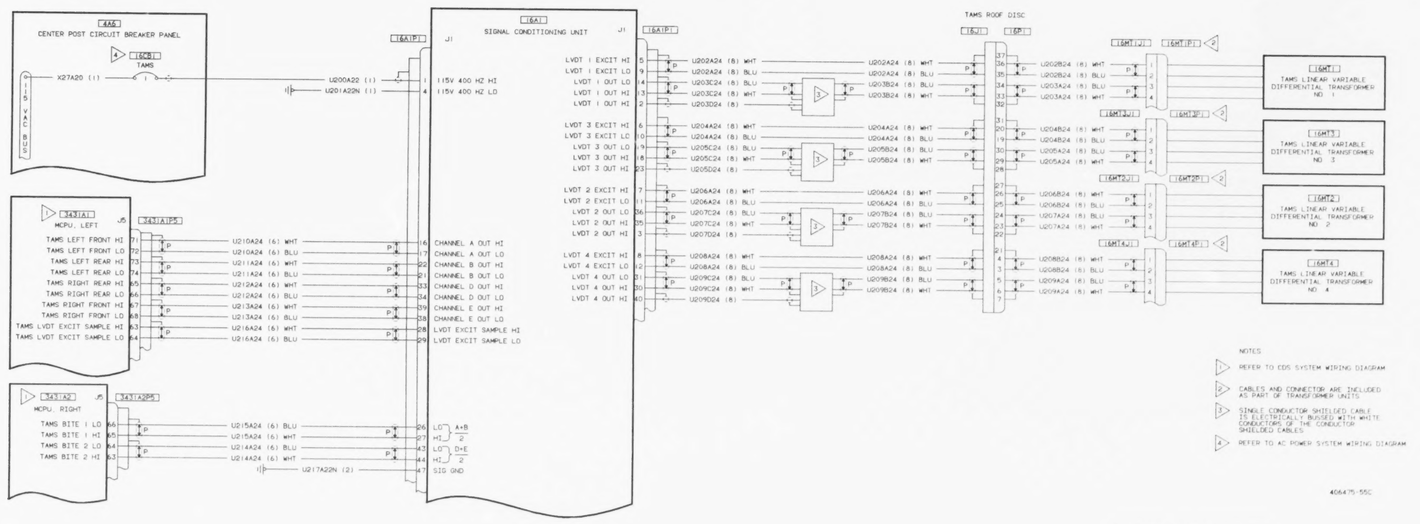


Figure FO-9 TAMS Wiring Diagram

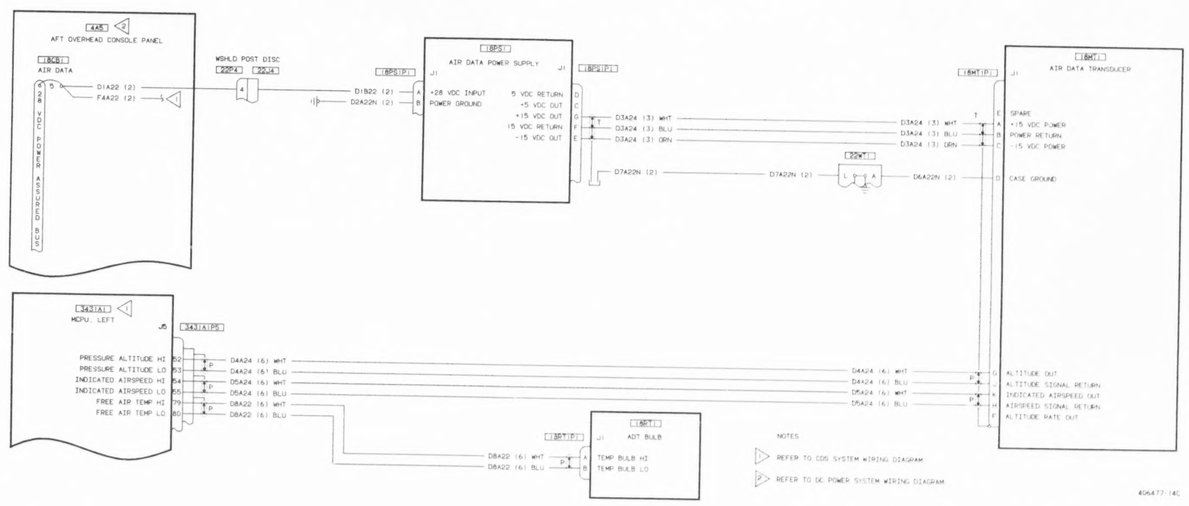


Figure FO 10. ADS Wiring Diagram